

Robert W. Proctor

Purdue University
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Education

B.A. in Psychology, University of Texas at Austin, 1970
M.A. in Psychology, University of Texas at Arlington, 1972
Ph.D. in Psychology, University of Texas at Arlington, 1975

Academic Experience

Distinguished Professor of Psychological Sciences, Purdue University, West Lafayette, Indiana, December, 2007, through present.

Courtesy Appointment, School of Industrial Engineering, August, 2008 through present
Fellow, Center for Education and Research in Information Assurance and Security
Member, Perception-Based Engineering Group

Professor, Department of Psychological Sciences, Purdue University, West Lafayette, Indiana, August, 1988 through December, 2007.

Associate Professor, Department of Psychology, Auburn University, Auburn, Alabama, September, 1980 through August, 1988.

Visiting Professor, Department of Psychology, University of Colorado, Boulder, Colorado, January, 1983 through April, 1983. (sabbatical leave)

Assistant Professor, Department of Psychology, Auburn University, Auburn, Alabama, September, 1976 through September, 1980.

Assistant Professor, Department of Psychology, Michigan State University, East Lansing, Michigan, September, 1975 through August, 1976. (one-year appointment)

Graduate Research Assistantships and Teaching Assistantships/Associateships, Psychology Department, University of Texas at Arlington, Arlington, Texas, Fall, 1971 through August, 1975.

Honors

Outstanding Advisor of the Year Award, Student Activities and Organizations, Purdue University, 2019. (for the Student Chapter of the Human Factors and Ergonomics Society)

Paul M. Fitts Education Award for outstanding contributions to the education and training of human factors and ergonomics specialties, The Human Factors and Ergonomics Society, October, 2018

Faculty Mentor of the Year, Louis Stokes Alliance for Minority Participation, Purdue University, April, 2017.

Outstanding Graduate Mentor Award, College of Health and Human Sciences, Purdue University, April 2014.

Honors (cont'd.)

Franklin V. Taylor Award for Outstanding Contributions in the Field of Applied Experimental/ Engineering Psychology. *Division 21*, American Psychological Association, August, 2013.

Outstanding Advisor of the Year Award, Student Organization Leadership Awards, Student Activities and Organizations, Office of the Dean of Students, Purdue University, 2013.

Fellow, Center for Social and Behavioral Sciences, School of Liberal Arts, Purdue University, Fall, 2000.

Distinguished Alumnus Award, School of Sciences, University of Texas at Arlington, October 18, 1997.

Visiting Scholar, the Chinese University of Hong Kong, March, 1996.

Plaque in appreciation for 10 years of service and guidance to the Auburn University chapter of Psi Chi, May, 1988.

Certificate of appreciation in recognition of outstanding service as Psi Chi faculty advisor. Awarded by the student members of the Auburn University chapter, May, 1984.

Invited Talks

Invited lecturer, Winter School: Human Action Control – Current Theories and Debates, Department of Psychology, Eberhard Karls University of Tübingen, Germany, February 13-16, 2017.

Invited talk at 27th Attention and Performance meeting: The Power of Instructions, Turnhout, Belgium, June 9-12, 2016.

Invited talk at Building Bridges between Functional and Cognitive Psychology meeting, Ghent, Belgium, May 25-27, 2014.

Invited address, "The American Journal of Psychology: 125 Years of Basic and Applied Experimental Research," 120th Annual Convention of the American Psychological Association, Division 21: Applied Experimental and Engineering Psychology, Orlando, FL, August 2-5, 2012.

Invited opening talk, "Responding to the Source of Stimulation: An Interdisciplinary Conference in Tribute to J. Richard Simon," University of Iowa, Iowa City, IA, October 10-12, 2008.

Invited panelist, "Conference on the Science and Applications of Perception Psychology: Festschrift to Honor the Career of Joel Warm," Cincinnati, OH, May 15-16, 2008.

Invited talk at an international workshop on "Limits on Intentionality" held at Universität Konstanz, Konstanz, Germany, July 19-21, 2007.

Invited talk in the symposium "Attention and Control: How Irrelevant Information Affects Response Selection and How Control Processes Intervene" held at the Joint meeting of the Experimental Psychology Society (EPS-UK) and the Belgian Association for Psychological Science (BAPS), Cardiff, Wales, April 12, 2007.

Invited research talk at Dual-Task Conference, Ohlstadt, Germany, Feb. 26–29, 2004.

Invited research talk at Attention and Performance XIX, Kloster Irsee, Germany, July 16-22, 2000.

Invited Talks (cont'd.)

Featured Lecturer, Armadillo IX meeting of cognitive psychologists, Houston, TX, May, 1998.

Keynote Speaker, Canadian Society for Psychomotor Learning and Sports Psychology, October, 1995.

Professional Societies

American Psychological Association, Fellow Divisions 3 (Society for Experimental Psychology and Cognitive Science) and 21 (Applied Experimental and Engineering Psychology)
Association for Psychological Science, Fellow
Human Factors and Ergonomics Society, Fellow
Midwestern Psychological Association
Psychonomic Society, Fellow
Society for Computers in Psychology

Elected to the American Psychological Association Council of Representatives as Representative of Division 21: Applied Experimental and Engineering Psychology, August 2019-2022.

Elected to 3-year term as member at large of Division 3: Society of Experimental Psychology and Cognitive Science, of the American Psychological Association, August 2019-2022.

President-Elect, President, and Past President, Division 21: Applied Experimental and Engineering Psychology, American Psychological Association, August, 2016 through August, 2019.

Elected member of the Board of Scientific Affairs of the American Psychological Association for a 3-year term from January 1, 2014 through December 31, 2016.

Elected Member-at-Large, Executive Committee, Division 21 (Applied Experimental and Engineering Psychology) of the American Psychological Association, June, 2014-August, 2016.

President, Society for Computers in Psychology, 2003-2004.

Elected to the Steering Committee of the Society for Computers in Psychology, November 2000.

Areas of Interest

My research interests are primarily in basic and applied issues in human perception and performance. The main focus is on the topic of action selection, and more specifically, stimulus-response compatibility. I also work on a range of issues relating to perception, attention, memory, skill acquisition, and motor performance. My applied research interests are in human factors and human-computer interaction; they include usability issues and decision making in cybersecurity, training for performance of complex tasks including operation of heavy construction equipment, content preparation for the Web, and factors that influence driver performance. Another area in which I have been working is research methodology in science and the psychology of science.

Administrative Experience

Purdue University

Area Coordinator, Graduate Program in Cognitive Psychology, 1988-2003; 2004-2005; 2006-2009
Member, Primary Committee, 1988-present
Member, Advisory Committee, 1989-1991, 2013-2015
Member, Liberal Arts Faculty Senate, 1991-1994
Member, Cognitive Search Committee, 1988-1989; 2006-2007, 2012-2013

Administrative Experience (cont'd.)

Chair, Cognitive Search Committee, 1989-1990; 1990-1991
Member, Liberal Arts Grievance Committee, 1989-1991; 1998-2000; 2005-2007
Member, Graduate Committee, 1991-1992; 1993-1994; 1995-1996; 1999 (spring); 2003-2004, 2009-2020
Chair, Liberal Arts Nominating and Elections Committee, 1992-1994
Member, Industrial-Organizational Search Committee, 1997-1998; 2001
Member, Clinical Search Committee, 1999-2001
Member, Liberal Arts Social and Behavioral Science Fellows Selection Committee, 2002-2003
Chair, Department Head Search Committee, 2002-2003
Member, Guidelines for Tenure and Promotion Committee, Spring, 2003
Member, Shop Committee, Spring, 2003
Chair, Cognitive Search Committee for Spousal Hire, Spring, 2003
Member, Colloquium Committee, 2003-2004; 2010-2018
Member, Admissions and Awards Committee, 2003-2007
Chair, Liberal Arts Social and Behavioral Science Fellows Selection Committee, 2003-2004
Member, College of Liberal Arts Faculty Affairs Committee, 2004-2007
College of Liberal Arts representative on the College of Engineering's Curriculum Reform Task Force (Engineer of 2020), 2004-2010
Member, College of Liberal Arts Conflict of Interest Committee, 2005
Member, Selection Committee, Clifford Kinley Trust, Grants for Research Relating to Human Welfare, 2006-2010
Chair, College of Liberal Arts Distinguished Professor Review Committee, 2008
Member, Center on Aging and the Life Course Symposium Committee, 2009
Member, Center on Aging and the Life Course Steering Committee, 2009-2011
Chair, Search Committee for James V. Bradley Chair, Dept. of Psychological Sciences, 2011-2012
Member, Purdue Symposium Planning Committee, 2014-2018.
Member, Social Psychology and Sustainability Search Committee, Building Sustainable Communities Cluster Hire, 2014.
Member, College of Liberal Arts Distinguished Professor Review Committee, 2017
Member, Purdue Committee on Research Integrity, 2017-2019 academic years.

Auburn University

Member, Liberal Arts Dean Search Committee, 1987
Member, University Academic Honesty Committee, 1986-1988
Member, Research Review Panel, Dept. of Health, Physical Education, and Recreation, 1983-1988
Chair, Departmental Ethics Committee, 1984-1988
Chair, Textbook Selection Committee, 1980-1983
Departmental Film Coordinator, 1976-1982
Member, Departmental Ethics Committee, 1978-1979
Member, Textbook Selection Committee, 1977-1979
Member, Undergraduate Curriculum Committee, 1976-1981
Member, Personnel Selection Committees

Teaching Experience

Undergraduate Courses

Attention and Cognitive Control
Sensory and Perceptual Processes
Human Learning and Memory
Cognitive Processes
Psycholinguistics

Teaching Experience (cont.'d)

Critical Analysis of Parapsychology
Statistics
Experimental Design
Introductory Psychology
Study Skills

Graduate Courses

Attention and Performance
Human Action Control
Human Information Processing
Human Factors in Engineering
Human Learning and Memory
Psychophysics
Seminars on Attention and Performance
Seminars on Response Selection and Dynamics of Cognition
Seminar on Individual Differences in Cognition
Seminars on Human Factors
Seminars on Skill Acquisition
Seminars on Philosophy of Science
Seminar on Technology, Mind, & Society

Continuing Education

Human Factors in Engineering. Televised by the Purdue University Continuing Engineering Education Program, Fall, 1990; Fall, 1992; Fall, 1995; Fall, 1997; Fall, 1999; Fall, 2001; Summer, 2002; Fall, 2003; Fall, 2005; Fall, 2007; Fall, 2008; Fall, 2009; Fall, 2011; Fall, 2013; Fall 2015; Fall, 2017, Fall, 2019.

Human Factors in System Design. Purdue University Engineering/Management Program, April 29-May 4, 1991.

Consulting Experience

Todd and Smith Law Firm, Pikeville, KY, 1997. Consultation pertaining to warnings and recognition of danger for a case involving a death while performing repairs on a natural gas well.

Litton Computer Services, Fort Benning, GA, 1988. Perceptual and cognitive factors in the acquisition and retention of land-navigation skills.

PPG Industries, Inc., Coding and Resins Division, Pittsburgh, PA, 1985. Revised the CHAMP coding system for coding the pigments and resins used in making Pittsburgh Paints.

Behavioral Research Services, Inc., Arlington, TX, 1973-1975. Co-founder of the company; worked on survey research projects.

Editorial Experience

Editorial Boards

Editor, *American Journal of Psychology*, March, 2008-present.

Editor, *Behavior Research Methods, Instruments, & Computers*, 1994-1999.

Associate Editor, *Quarterly Journal of Experimental Psychology*, 2001-2005.

Editorial Experience (cont'd.)

Associate Editor, *Memory & Cognition*, 1986-1993.

Associate Editor for Cognitive Sciences, *International Journal of Human-Computer Interaction*, 1992-2000.

Editorial Advisory Board, *Psychological Research/Psychologische Forschung*, 2009-present.

Consulting Editor, *Memory & Cognition*, 2009-present.

Consulting Editor, *Journal of Expertise*, 2018-present.

Editorial Board, *Human Factors*, 2007-present.

Editorial Board, *Acta Psychologica*, 2006-present.

Consulting Editor, *International Journal of Human-Computer Interaction*, 2001-present.

Review Editor, *Frontiers in Cognition*, 2010-present.

Consulting Editor, *Journal of Experimental Psychology: Human Perception and Performance*, 2001-2011; 2014-2017.

Consulting Editor, *International Journal of Cognitive Ergonomics*, 1995-2001.

Consulting Editor, *Perception & Psychophysics*, 1983-1998.

Advisory Board, *Handbook of Human Factors and Ergonomics* (2006; 3rd ed.). Hoboken, NJ: Wiley.

Professional Conference Boards

Program Chair, *Society for Computers in Psychology 2002 Annual Meeting*, Kansas City, MO, November, 2002.

Member, Steering Committee, Technology, Mind, and Society Conference, American Psychological Association. Washington, DC, April 2018.

Member, Neuroergonomics & Cognitive Engineering Board, *10th International Conference on Applied Human Factors and Ergonomics 2018*, Washington, DC, July 24-28, 2019.

Member, Neuroergonomics & Cognitive Engineering Board, *9th International Conference on Applied Human Factors and Ergonomics 2018*, Orlando, FL, July 22-26, 2018.

Member of Human Interface and the Management of Information Program Board, *19th International Conference on Human-Computer Interaction*, Vancouver, Canada, July 9-14, 2017.

Member of the Cognitive and Neuroergonomics Board, *8th International Conference on Applied Human Factors and Ergonomics 2017*, Los Angeles, CA, July 17-21, 2017.

Member of the Human Interface and the Management of Information Program Board, *18th International Conference on Human-Computer Interaction*, Toronto, Ontario, August, 2016.

Member of the Cognitive and Neuroergonomics Board, *7th International Conference on Applied Human Factors and Ergonomics 2016*, Orlando, FL, July, 2016.

Editorial Experience (cont'd.)

- Member of the Human Interface and the Management of Information Program Board, *17th International Conference on Human-Computer Interaction*, San Francisco, CA, August, 2015.
- Member of the Human Interface and the Management of Information Program Board, *16th International Conference on Human-Computer Interaction*, Heraklion, Crete, June, 2014.
- Member of the Cognitive and Neuroergonomics Board, *5th International Conference on Applied Human Factors and Ergonomics 2014*, Krakow, Poland, July, 2014.
- Member, Program Committee, HotSoS 2014, the First Annual Symposium and Bootcamp on the Science of Security, Raleigh, NC, April 8-9, 2014.
- Member of the Human Interface and the Management of Information Program Board, *15th International Conference on Human-Computer Interaction*, Las Vegas, NV, July, 2013.
- Member, International Scientific Programme Committee, SouthCHI 2013: International Conference on Human Factors in Computing and Informatics, Maribor, Slovenia, July, 2013.
- Member of the Cognitive and Neuroergonomics Board, *4th International Conference on Applied Human Factors and Ergonomics 2012*, San Francisco, CA, July, 2012.
- Member of the Scientific Committee, *USAB 2011– Information Quality in e-Health*.
7th Conference of the Austrian Computer Society Workgroup: Human-Computer Interaction, LKH-University Hospital, Graz, Austria, Nov., 2011.
- Member of the Human Interface and the Management of Information Program Board, *14th International Conference on Human-Computer Interaction*, Orlando, FL, July, 2011.
- Member of the Program Committee, *USAB 2010 – HCI in Work & Learning, Life & Leisure*.
6th Symposium of the Austrian Computer Society, Klagenfurt University, Austria, Nov., 2010.
- Member of the Cognitive Ergonomics Board, *3rd International Conference on Applied Human Factors and Ergonomics 2010*, Miami, FL, July, 2010.
- Member of the Program Committee, *USAB 2009 - Usability & HCI for eInclusion*
5th Symposium of the Austrian Computer Society, Linz, Austria, November, 2009.
- Member of the Human Interface and the Management of Information Program Board, *13th International Conference on Human-Computer Interaction*, San Diego, CA, July, 2009.
- Member of the Program Committee, Usability & Human-Computer Interaction for Education and Work. *4th Symposium (USAB 2008) of the Austrian Computer Society*, Graz, Austria, Nov., 2008.
- Member of the Cognitive Ergonomics Board, *2nd International Conference on Applied Human Factors and Ergonomics 2008*, Las Vegas, NV, July, 2008.
- Member of the Program Committee, Cognitive Performance Support in Medicine and Health Care track for the *3rd Usability Symposium (USAB 2007) of the Workgroup HCI&UE of the Austrian Computer Society*, Graz, Austria, November, 2007.
- Member of the Program Board, *12th International Conference on Human-Computer Interaction*, Beijing, China, July, 2007.

Editorial Experience (cont'd.)

Member of the Program Board, *11th International Conference on Human-Computer Interaction*, Las Vegas, Nevada, July, 2005.

Member of the Program Board, *10th International Conference on Human-Computer Interaction*, Crete, Greece, June, 2003.

Member of the Program Board, *9th International Conference on Human-Computer Interaction*, New Orleans, LA, August, 2001.

Member of the Program Board, *7th International Conference on Human-Computer Interaction*, San Francisco, CA, August, 1997.

Member of the Program Board, *1st International Conference on Applied Ergonomics*, Istanbul, Turkey, June, 1996.

Ad Hoc Reviewing

Journals:

American Psychologist
Applied Cognitive Psychology
Applied Ergonomics
Attention, Perception, & Psychophysics
Aviation, Space, and Environmental Medicine
Behavior Research Methods
Behaviour & Information Technology
Canadian Journal of Experimental Psychology
Cognitive Psychology
Cognitive Science
Ergonomics
Experimental Brain Research
Experimental Psychology
IEEE Transactions on Systems, Man, and Cybernetics
Instructional Science
Journal of Applied Research in Memory and Cognition
Journal of Cognitive Psychology
Journal of Experimental Psychology: Applied
Journal of Experimental Psychology: Learning, Memory, and Cognition
Journal of Experimental Psychology: General
Journal of General Psychology
Journal of Gerontology: Psychological Sciences
Journal of Motor Behavior
Motor Control
Perspectives on Psychological Science
PLOS 1
Psychological Bulletin
Psychological Review
Psychology and Aging
Psychology and Neuroscience
Psychonomic Bulletin & Review
Psychological Science
Quarterly Journal of Experimental Psychology
Science
Theoretical Issues in Ergonomics Science
Vision Research
Visual Cognition

Editorial Experience (cont'd.)

Granting Agencies: National Science Foundation
Air Force Office of Scientific Research
National Sciences and Engineering Research Council of Canada

Publishers: Academic Press Addison-Wesley
Blackwell Publishers Goodyear Press
Harper and Row Lawrence Erlbaum Associates
Oxford University Press Prentice-Hall
Sage Publishers, Inc. Scott, Foresman
West Publishing Company

General Research Interests

Action selection and preparation
Stimulus-response compatibility
Modality effects in perception and action
Selective aspects of attention
Dual-task performance
Skill acquisition, training, and transfer
Perceptual matching
Response selection and attention in driving, flight, and operation of construction equipment
Human-computer interaction and human engineering
Human factors in cyber security and privacy

Research Grants and Funding

SaTC: CORE: Medium: Collaborative: User-Centered Deployment of Differential Privacy. National Science Foundation. Ninghui Li (PI), Robert W. Proctor (co-PI), Jeremiah Blocki (co-PI), Aiping Xiong (Pennsylvania State University, co-PI), Somesh Jha (University of Wisconsin, co-PI). 01/01/2020 through 12/31/2020. Budget: \$500,000.

Toward a Generalized Framework and Flexible Software Environment for Power Analysis of Alcohol Treatment Randomized Control Trials. National Institutes of Health, Project Number: 1R01AA027264-01. Sean Lane (PI), Erin Hennes (PI), Robert Proctor (Co-I), Carol Song (Co-I), Douglas Steinley (Co-PI), Katie Witkiewitz (Co-PI), Lan Zhao (Co-PI), Kristina Jackson (Co-PI), Denis McCarthy (Co-PI), Niall Bolger (Co-PI). September 20, 2018, through August 31, 2023. \$3,400,000.

SaTC: CORE: Medium: Improving Password Ecosystem: A Holistic Approach. National Science Foundation. Ninghui Li (PI), Robert Proctor (Co-PI), and Jeremiah Blocki (Co-PI). 10/01/2017 through 9/30/2019. \$300,000.

Development of Self-Tuned Indoor Environments. Center for High Performance Buildings, Purdue University. PI: Panagiota Karava (Civil Engineering) PI: Co-PIs: Iliia Billionis (Mechanical Engineering), Robert W. Proctor (Psychological Sciences), and Thanos Tzempelikos (Civil Engineering). January 1, 2016, through December 31, 2016. \$50,000.

Human-Centered Systems for Cyber-Enabled Sustainable Buildings. National Science Foundation Cyber-Innovation for Sustainability Science and Engineering (CyberSEES) program. PI: Panagiota Karava (Civil Engineering) PI: Co-PIs: Iliia Billionis (Mechanical Engineering), Jianghai Hu (Electrical and Computer Engineering), Robert W. Proctor (Psychological Sciences), and Thanos Tzempelikos (Civil Engineering). September 1, 2015, through August 31, 2019. \$1,200,000.

Research Grants and Funding (cont'd.)

- Principal Investigator, "General Motors Urban Active Solutions PEV Project". Contract with General Motors, Detroit Michigan, August 2, 2014–November 2, 2014, \$64,502.88.
- Co-Principal Investigator with Ninghui Li, Purdue University, "A Human Information-Processing Analysis of Online Deception Detection" and "Scientific Understanding of Policy Complexity." North Carolina State University Science of Security Lablet: Growing the Science of Security through Analytics, National Security Agency. March 28, 2014–March 28, 2017, \$300,000.
- Co-Principal Investigator with Ninghui Li and Luo Si Purdue University and Ting Yu, North Carolina State University, TWC SBE: Medium: Collaborative: User-Centric Risk Communication and Control on Mobile Devices. National Science Foundation, August 1, 2013–July 31, 2016 (extended to July 31, 2018). \$838,219.
- Co-Principal Investigator with Thanos Tzempelikos (Civil Engineering), Panagiota Karava, Patricia Davies, and James Braun, Purdue University, "Integration of Humans and Their Environment in Building Design and Operation Including Advanced Technologies." Architecture for Humanity, Alcoa Foundation. August, 2013–January, 2016, \$123,000.
- Co-Principal Investigator with Ting Yu, North Carolina State University, and Ninghui Li, Purdue University, "Towards a Scientific Basis for User Centric Security Design." Science of Security Lablet, National Security Agency. August 15, 2012–May 15, 2014, \$250,788.
- Sub-award to Robert Proctor from Colorado State University, "Action's Effect on Perception." PI: Jessica Witt. NSF. August 8, 2012–May 31, 2013, \$55,568 (RA for Mila Sugovic).
- Co-Principal Investigator, "Skill Development and Transfer from Virtual Training Systems." NSF CMS –Info Tech & Infrastuct Systems Program. Sept. 15, 2007–Aug. 31, 2011, \$130,000.
- Co-Investigator, "Training Knowledge and Skills for the Networked Battlefield." Multidisciplinary Research Program of the University Research Initiative (MURI), Department of Defense Army ARO, May 1, 2005–Sept. 30, 2010, \$5,000,000 total. My share of the funding: \$550,000.
- Co-Principal Investigator, "A Comprehensive Policy-Driven Framework for Online Privacy Protection: Integrating IT, Human, Legal and Economic Perspectives." NSF CyberTrust Program. September 1, 2004–August 31, 2007, \$666,000. My share of the funding: \$180,000.
- Principal Investigator, "Modeling the Effects of Aging on Memory", National Institute on Aging, Grant number 5R01AG021071-03. I took over supervision of the grant in July, 2006, when Aimée Surprenant left Purdue. September 30, 2003–August 31, 2008; Total Award Amount: \$889,868.
- Co-Principal Investigator, "Flight Display Technology Human Factors." School of Technology Interdisciplinary Innovation Initiative Grant. May 1, 2004–April 30, 2005, \$30,000.
- Principal Investigator, Kinley Trust Award, "Age Differences in Response Selection for Single and Multiple Task Sets". Awarded July 1, 2003–December 31, 2004, \$19,931.
- Awarded Lynn Fellowship for the Gerontology program at Purdue, for Rachael Anderson, \$13,500, plus supplement for health insurance, tuition, and fees, for 2003–2004 academic year.
- Principal Investigator, "Response Selection as a Function of Age". National Institute of Aging, with David F. Pick (Purdue Calumet), co-PI. October 1, 2002–August 31, 2004, \$75,000.

Research Grants and Funding (cont'd.)

Principal Investigator, "Perception of Continuously Variable Transmission Performance".

Grant funded from the Ford Motor Company Foundation "Perception-Based Engineering Laboratory", with David F. Pick (Purdue Calumet) and Jon Fricker (Civil Engineering), co-PIs. August 1, 2002–December 31, 2004, \$100,000.

Co-Principal Investigator, Human Factors and Human Performance Components: Ford Motor Company Foundation gift to Purdue University to fund a "Perception-Based Engineering Laboratory," Jan 24th, 2001 to Jan 2005. \$3.5 M. Co-PIs from ME, ECE, AUS and Psychology at Purdue collaborated with Dan Hirleman (Head, ME), Bob Bernhard (Director, Herrick Laboratory), Shari Rodriguez (ME Development), and Patricia Davies (ME, lead co-PI) on the proposal. The funds were used in part to construct a new facility as part of the expansion of the Ray W. Herrick Laboratories, which opened in fall, 2013.

Usability testing course project for Thomson Consumer Electronics, spring semester, 2001, \$11,250. They provided 75 stereo units for use in PSY/IE 577 Human Factors in Engineering. We developed a usability survey as a class project, and each student was responsible for filling out the survey and for having a friend fill it out. A summary report was provided to Thomson.

Principal Investigator, Bridge Grant, "Integrating Human-Usability Metrics into Information Security Models," Center for Education and Research in Information Assurance and Security, Purdue University, July 1, 2000–June 30, 2001, \$30,000. With Gavriel Salvendy, Industrial Engineering, Co-Principal Investigator, & Eugene Schultz, Computer Science, Consultant.

Principal Investigator, 2000 Gerontology Program Pilot Grant, Purdue University. Title: "An Evaluation of Compatibility Effects as a Function of Age for Auditory and Visual Stimuli for Possible Use in Automobile Collision Warning Systems," May 1, 2000–April 30, 2001, \$8,000. With David F. Pick, Purdue Calumet.

Co-Principal Investigator, Academic Reinvestment Grant, Development of Driver Performance laboratory. Awarded May, 2000. \$70,000 for two years. With Jon Fricker, Hong Tan, Mark Lehto, and James L. Mohler.

Principal Investigator, "Integrating Human-Usability Metrics into Information Security Models," grant awarded by Center for Education and Research in Information Assurance and Security, Purdue University, July 1, 1999–June 30, 2000, \$49,943. With Gavriel Salvendy, Industrial Engineering, Co-Principal Investigator, and Eugene Schultz, Computer Science, Consultant.

Special Initiatives Fellowship/Assistantship for Kim-Phuong Vu, \$12,000 plus tuition and fees and \$590 as a medical insurance supplement. This award was spread over the 1999-2000 and 2000-2001 academic years to supplement a Jacob Javits four-year fellowship from the U.S. Department of Education that she received.

Budget for secretarial support and supplies from the Psychonomic Society for editorship of *Behavior Research Methods, Instruments, and Computers*, 1994–1999. Approximately \$13,000/year.

Contract with General Motors Technical Education Program for Human Factors course sequence taught through Continuing Engineering Education, 1996. \$35,500 for course development.

IBM RS/6000 workstation for G. Francis, R. Melara, and R. Proctor. IBM shared university research program - equipment purchases, 1994.

Research Grants and Funding (cont'd.)

Principal investigator (with T. G. Reeve), "Stimulus-response compatibility effects in airborne systems design". Grant number AFOSR-88-0002 with the United States Air Force Office of Scientific Research, October 1, 1987–April 1, 1989. Budget of \$91,804.

Budget for secretarial support and supplies from the Psychonomic Society for associate editorship of *Memory & Cognition*, 1986-1993. Approximately \$4,000/year.

Inquiry Center, School of Education, Auburn University, Grant for the Development of Computerized Laboratory Routines for courses in Perception, Cognition, and Motor Skills, 1984 (with T. G. Reeve and J. D. Proctor).

Auburn University Grant-in-Aids for 1977, 1978, 1982, and 1985.

Inter-University and Interdisciplinary Activities

Visiting Faculty Member, Center for Research on Training, University of Colorado, Boulder, 2006-2018.

Faculty Advisor for the Purdue student chapter of the Human Factors and Ergonomics Society, School of Industrial Engineering, 1996-present.

Member, Advisory Board, Center for Human Factors in Advanced Aeronautics Technologies, California State University Long Beach, 2009-2014.

Cooperation Partner, Institut für Psychologie, RWTH Aachen University, Aachen, Germany. Dual Task Performance While Driving a Car: Age-related Differences in Critical Situations, German Science Foundation grant (DFG Mu 1298/5, SPP1084 "Altersdifferenzierte Arbeitssysteme"), Jochen Müsseler and Gisa Aschersleben, Administrators, 2006-2009.

Collaborator with Phillip Dunston, School of Civil Engineering, on research concerning use of virtual reality simulators in the training of construction equipment operators.

Collaborator with Ninghui Li, Department of Computer Science, on research concerning human judgment and choice relating to information security and privacy decisions.

Collaborator with faculty from Aviation Technology, Computer Graphics Technology, and Industrial Engineering on projects in Human Factors in Aviation.

Supervisor for visiting graduate students from University of Padua (Antonello Pellicano, 2003-2004; Giulia Baroni, 2010) and Wuhan University (Qi Zhong, 2016-2017), and Visiting Scholar from Shaanxi Normal University, Xi'an, China: Xiaolei Song, 2012-2013.

Graduate Student and Postdoctoral Researcher Supervision

Prior Doctoral Thesis and Postdoctoral Advisees

1. Harvey D. Watson, 1980, The effects of objective and perceived size properties on visual form perception. Auburn University. Current position: Research Psychologist, Neurocognitive Assessment Branch, Rehabilitation and Reintegration Directorate, Health Policy and Services, Office of the Surgeon General, U.S. Army Medical Department, San Antonio, TX.
2. K. Venkata Rao, 1982-1984, Postdoctoral research associate in Prof. Robert W. Proctor's human performance lab, Auburn University. Current position: Independent business owner, Bangalore, India.
3. Brien N. Smith, 1989, The role of schematic knowledge in job evaluation. Current position: Dean, Scott College of Business, and Professor, Management, Indiana State University, Terre Haute, IN.

Graduate Student and Postdoctoral Researcher Supervision (cont'd.)

4. Daniel J. Weeks, 1989, Processes involved in translating between orthogonal stimulus and response dimensions. Auburn University. Current position: President, University of Northern British Columbia, Prince George, Canada.
5. Michael A. Stadler, 1989, Chunking and implicit pattern learning in a serial reaction time task. Current position: Associate Professor, Dept. of Psychology, University of Missouri, Columbia, MO. (co-advisor with Henry L. Roediger III)
6. Kathryn C. Campbell, 1992, The role of response factors in the repetition effect with a spatial-response task. Current position: Instructor, Dept. of Psychology, South Dakota State University, Brookings, SD.
7. Trisha Van Zandt, 1992, Modeling nonstationarity in perceptual matching. Current position: Professor, Dept. of Psychology, Ohio State University, Columbus, OH. (co-advisor with Hans Colonius)
8. Addie Johnson (Dutta), 1993, Categorical learning in choice-reaction tasks. Current position: Former Professor, Faculty of Social and Behavioral Sciences, University of Groningen, Groningen, The Netherlands.
9. Chen-Hui Lu, 1994, Effects of ideomotor compatibility and relative timing on the processing of multidimensional stimuli. Current position: Associate Professor, Department of Industrial Design, Shih Chien University, Taipei, Taiwan.
10. Mei-Ching Lien, 2001, An interactive conception of the psychological refractory period effect. Current position: Professor, Department of Psychology, Oregon State University, Corvallis, OR.
11. Julie G. Marble, 2001, Spatial compatibility and incidental sequence learning in the serial reaction time task. Current position: Senior Scientist, The Johns Hopkins University Applied Physics Laboratory, Baltimore, MD.
12. Todd E. Roswarski, 2001, Human decision-making in medicine: A study of professional characteristics and practices. Current position: Vice Chancellor of Academic Affairs, Ivy Tech College, Lafayette, IN.
13. Yang Seok Cho, 2002, Effects of stimulus-set location on orthogonal stimulus-response compatibility. Current position: Professor, Department of Psychology, Korea University, Seoul, Korea.
14. Kim-Phuong L. Vu, 2003, Influences of a prior incompatible location mapping on tasks for which stimulus location is irrelevant. Current position: Professor, Department of Psychology, California State University Long Beach.
15. Antonello Pellicano, 2003-2004, Predoctoral research scholar from Italy in Prof. Robert W. Proctor's human performance lab. Current position: Postdoctoral Researcher, Section for Clinical and Cognitive Neurosciences, Department of Neurology, University Hospital Aachen, Aachen, Germany.
16. Lenore E. Read, 2004, Stimulus-response compatibility and negative priming without distractors: Implications for perception to action. Deceased. (coadvisor with Stuart Offenbach)
17. Dongyuan (Debbie) Wang, 2004, A combined process in determining the direction and size of the Simon effect with wheel-rotation responses. Current position: Associate Professor, Department of Psychology, University of North Florida, Jacksonville, FL. (co-advisor with David Pick, Purdue Calumet)
18. Sufen Chen, 2007, Working memory modulates attentional control as revealed by sequential effects. Current position: Postdoctoral Researcher, Department of Cognitive and Neural Systems, Boston University, and Albert Einstein College of Medicine, Bronx, NY. (co-advisor with Robert D. Melara)
19. Huijun Wang, 2007, Exploring response inhibition in adults with attention deficit hyperactivity disorder: An ERP study. Current position: Neurology Specialist, Christiana Care Health System, Newark, DE. (co-advisor with Robert D. Melara)

Graduate Student and Postdoctoral Researcher Supervision (cont'd.)

20. Huafei Liao, 2008, Content preparation for cross-cultural e-commerce for American and Chinese online consumers. Current position: Human Factors and Human Reliability, Sandia National Laboratories, Albuquerque, NM. (co-advisor with Gavriel Salvendy, Industrial Engineering)
21. Kyeong-Ah Jeong, 2009, Design and operation of smart homes in U.S.A. and Korea. Current position: Human Factors Engineer, Software Services Group, Developer Products Division, Intel Corporation, Hillsboro, OR. (co-advisor with Gavriel Salvendy, Industrial Engineering)
22. Yun Kyoung Shin, 2009, Examination of stimulus-response-effect structure in choice reaction tasks. Current position: Instructor, Ulsan National Institute of Science and Technology, Ulsan, Korea.
23. Cynthia Zdanczyk, 2009, The role of working memory in selective attention: Integrality of two speech dimensions across and within a category boundary. Current position: Continuing Lecturer of Psychology, Division of Social Sciences, Purdue University North Central, Westville, IN.
24. Chunhong Shao, 2009-2010, Postdoctoral research associate in Prof. Robert W. Proctor's human performance lab. Current position: Department of Psychiatry, Huashan Hospital, Fudan University, Shanghai, China.
25. Yinni Guo, 2010, Axiomatic evaluation method and content structure for information appliances. Current position: User Experience Researcher, Google, Mountain View, CA. (co-advisor with Gavriel Salvendy, Industrial Engineering)
26. Motonori Yamaguchi, 2010, Action-based selection across feature dimensions: Multidimensional vector models of stimulus-response compatibility. Current position: Reader, Department of Psychology, Edge Hill University, Ormskirk Lancashire, U. K.
27. Yanmin Zhang, 2010, Correspondence between stimulus, its reference, and response. Current position: Senior Research Analyst, Office of Institutional Research, Dartmouth College, Hanover, NH.
28. Giulia Baroni, January – December 2010, Predoctoral research scholar from Italy in Prof. Robert W. Proctor's human performance lab. Current position: Research fellow, ROSSI project (www.rossiproject.eu), Department of Communication Studies, University of Bologna, Bologna, Italy.
29. Dongbin (Tobin) Cho, 2011, Mechanisms of judgments in perception-action relations: Representational affordance or holistic processing? Current position: Senior UX Researcher, Samsung Electronics, Korea.
30. Kyungdoh Kim, 2011, Derivation and evaluation of 3D menu designs for smartphones. Current position: Assistant Professor, Industrial Engineering, Hongik University, Seoul, Korea. (co-advisor with Gavriel Salvendy, Industrial Engineering)
31. Leon Zeng, 2011, Fostering creativity in product/service development: Validation in the domain of information technology. Current position: Senior Associate, Discover Financial Services. (co-advisor with Gavriel Salvendy, Industrial Engineering)
32. James D. Miles, 2008-2011, Postdoctoral research associate in Prof. Robert W. Proctor's human performance lab. Current position: Associate Professor, Department of Psychology, California State University Long Beach.
33. Joey Chung-Yin So, 2014, Acquisition, retention, and transfer heavy equipment operator skills through simulator training. Current position: UX Research Lead at Dell Computer Corporation (co-advisor with Phillip S. Dunston, Civil Engineering)
34. Jing Chen, 2015, Selection versus rejection: The role of task framing in decision making. Current position: Assistant Professor, Department of Psychology, Old Dominion University, Norfolk, VA.
35. Nicole M. Murchison, 2016, Understanding the mechanism for response selection in compatibility tasks: Referential coding contrasted with biological properties of the hands. Current position: Systems Research and Analysis: Human Factors, Sandia National Laboratories, Albuquerque, NM.

Graduate Student and Postdoctoral Researcher Supervision (cont'd.)

36. Aiping Xiong, 2017, Roles of time perception and expected action effects in selecting delayed outcomes from description and experience. Current position: Assistant Professor, College of Information Sciences and Technology, Penn State University, University Park, Pennsylvania.
37. Courtney J. Griffin-Oliver, 2018, More than meets the eye: Stimulus-response compatibility effects in eye movements. Current position: Human Factors Scientist, Exponent (Engineering and Scientific Consultants), Philadelphia, PA.

Master's Thesis Advisees (current positions listed for those not listed under Ph.D. degrees)

1. Larry P. Wiley, 1988, The use of static-image media in land-navigation simulation: An evaluation of cycloramic and conventional image-projection systems. Auburn University. Current position: Emeritus Professor, Department of Psychology and Counseling, Valdosta State University, Valdosta, GA.
2. Harriet Ann Marsh Lee, 1989, Response times of schizophrenic, non-schizophrenic, and normal subjects on a test for response competition. Auburn University. Received her Ph.D. from Auburn University in 1997. Current position: retired, Branford, Florida.
3. Chen-Hui Lu, 1992, The relationships among stimulus-response compatibility, the Simon effect and the Stroop effect.
4. Huifang Wang, 1995, Two types of set-level S-R compatibility and their relations with element level S-R compatibility. Current position: Senior Manager of User Experience Design at SAS Institute, Cary, NC.
5. Julie G. Marble, 1998, Emergent features, instruction and graphic enhancement in display design.
6. Todd E. Roswarski, 1998, Auditory stimulus-response compatibility: Is there a role for a motor code?
7. Kim-Phuong L. Vu, 2000, Two-dimensional stimulus-response compatibility effects: Manipulating the salience of stimulus and response sets.
8. Dongyuan (Debbie) Wang, 2001, Stimulus-response compatibility with wheel-rotation responses.
9. Dongbin (Tobin) Cho, 2009, Within- and between-hand correspondence effects for objects with protruding left and right components.
10. Roslizawaty Mohd Rosli, 2009, Manufacturing engineer. CSDL, Alexandria Virginia (co-advisor with Hong Tan, Electrical and Computer Engineering)
11. Bessy Nohemy Lopez-Santamaria, 2011, Evaluating skill acquisition and transfer in heavy machinery operation using a simulation-based approach. Current position: St. Louis, MO.
12. Nicole M. Murchison, 2013, How hand posture modulates interference from extraneous Information in an Eriksen flanker task.
13. Aiping Xiong, 2014, Influence of referential coding in a choice task performed in a simulated driving cockpit. (co-advisor with Vincent Duffy, Industrial Engineering).
14. Julia C. Seibold, fall semester, 2014, Exploring handedness asymmetries in the Simon effect. Visiting Master's degree student from RWTH Aachen University, Germany. Current position: Graduate student at RWTH Aachen (advisor in Germany: Iring Koch).
15. Courtney Griffin-Oliver, 2015, Set- and element-level compatibility of eye-movement responses with spatial and verbal stimuli: Comparison to vocal and keypress responses.
16. Ding Ding. 2017. Interactions between design factors of airplane artificial horizon displays. Current position is with GE-AVIC Civil Avionics Systems Company Limited, Shanghai, China (research conducted in completing non-thesis option Master's degree in Industrial Engineering)
17. Scott R. Moore, 2017. Cybersecurity for Android applications. Current position: Engineer, Ford Motor Company, Dearborn, MI. (Master's degree in Industrial Engineering)

Graduate Student and Postdoctoral Researcher Supervision (cont'd.)

Other Advisees with Whom I Worked Closely

1. Lanie Dornier, 1986, Master's thesis: Advanced programming of arm and direction parameters: the effect of stimulus-response arrangement, Auburn University. Current position: Department Head, Department of Kinesiology, and Roger Thomas Luffy Endowed Professor, Louisiana Tech University, Ruston, LA.
2. Gene W. Fober, 1986, Effects of advanced planning on the performance of unimanual and bimanual movements, Auburn University. Current position: Program Manager, Engility Corporation (contractor for U.S. Army), Ft. Benning, GA.
3. Elizabeth. A. Franz, 1992, Orthogonal oscillators in the bimanual coupling of different spatial forms. Current position: Associate Professor, Department of Psychology, University of Otago, Otago, New Zealand.
4. M. Athar Ali, 2006, Master's, Computer Technology. Current position: IT Program Manager, Novartis (a company that develops healthcare products), Bangalore, India.
5. Abhilasha Bhargav-Spantzel, 2007, Computer Science. Current position: Security Specialist, Intel, San Francisco, CA.

Graduate Committee Memberships

1. From 2001 to present: Served on 5 Master's thesis and 12 Ph.D. dissertation committees in Psychological Sciences and 15 Master's thesis and 32 dissertation committees in other departments.
2. Non-thesis Interdisciplinary Engineering Committees for Engineering Professional Education: estimated total of 600 since 1989.
3. Currently advising or co-advising 4 Ph.D. students. Also, member of 9 Ph.D. and 2 Master's thesis committees, and 15 non-thesis Master's committees for Engineering Professional Education.

Books

Woo, S. E., Tay, L., & Proctor, R. W. (Eds.). (in press). *Big data in psychological research*. Washington, DC: American Psychological Association.

Proctor, R. W., & Van Zandt, T. (2018). *Human factors in simple and complex systems* (3rd ed.). Boca Raton, FL: CRC Press.

Johnson, A., & Proctor, R. W. (2017). *Skill acquisition and training: Achieving expertise in simple and complex tasks*. New York: Routledge.

Proctor, R. W. (Ed.) (2015). *Higher mental processes: Selections from The American Journal of Psychology*. Champaign, IL: University of Illinois Press.

Healy, A. F., & Proctor, R. W. (Eds.) (2013). *Experimental psychology*. Volume 4 in I. B. Weiner (Editor-in-Chief), *Handbook of psychology* (2nd ed.). Hoboken, NJ: John Wiley.

Johnson, A., & Proctor, R. W. (Eds.) (2013). *Neuroergonomics: A cognitive neuroscience approach to human factors and ergonomics*. Basingstoke, UK: Palgrave Macmillan.

Proctor, R. W., & Capaldi, E. J. (Eds.) (2012). *Psychology of science: Implicit and explicit processes*. New York: Oxford University Press.

Proctor, R. W., Nof, S., & Yih, Y. (Eds.). (2012). *Cultural factors in systems design: Decision making and action*. Boca Raton, FL: CRC Press.

Books (cont'd.)

- Vu, K.-P. L., & Proctor, R. W. (Eds.) (2011). *Handbook of human factors in Web design* (2nd ed.). Boca Raton, FL: CRC Press.
- Proctor, R. W., & Read, L. E. (Eds.) (2009). *Attention* (Vols. 1-4). Sage Library in Cognitive and Experimental Psychology. London: Sage Publications.
- Proctor, R. W., & Van Zandt, T. (2008). *Human factors in simple and complex systems* (2nd ed.). Boca Raton, FL: CRC Press.
- Proctor, R. W., & Capaldi, E. J. (2006). *Why science matters: Understanding the methods of psychological research*. Malden, MA: Blackwell Publishing.
- Proctor, R. W., & Vu, K.-P. L. (2006). *Stimulus-response compatibility principles: Data, theory, and application*. Boca Raton, FL: CRC Press.
- Proctor, R. W., & Vu, K.-P. L. (Eds.) (2005). *Handbook of human factors in Web design*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Johnson, A., & Proctor, R. W. (2004). *Attention: Theory and practice*. Thousand Oaks, CA: Sage. [Spanish translation (2015), *Atención: Teoría y práctica*. Madrid, Spain: Editorial Universitaria Ramón Areces.]
- Healy, A. F., & Proctor, R. W. (Eds.) (2003). *Experimental psychology*. Volume 4 in I. B. Weiner (Editor-in-Chief), *Handbook of psychology*. Hoboken, NJ: John Wiley.
- Capaldi, E. J., & Proctor, R. W. (1999). *Contextualism in psychological research? A critical review*. Thousand Oaks, CA: Sage.
- Proctor, R. W., & Dutta, A. (1995). *Skill acquisition and human performance*. Thousand Oaks, CA: Sage.
- Proctor, R. W., & Van Zandt, T. (1994). *Human factors in simple and complex systems*. Boston, MA: Allyn and Bacon.
- Dutta, A., Campbell, K., & Proctor, R. W. (1994). *Workbook for human factors in simple and complex systems*. Boston: Allyn & Bacon.
- Proctor, R. W., & Reeve, T. G. (Eds.) (1990). *Stimulus-response compatibility: An integrated perspective*. Amsterdam: North-Holland.
- Proctor, R. W., & Weeks, D. J. (1990). *The goal of B. F. Skinner and behavior analysis*. New York, NY: Springer-Verlag.

Book Chapters

- Proctor, R. W., & Xiong, A. (in press). From small-scale experiments to big data: Challenges and opportunities for experimental psychologists. In S. E. Woo, L. Tay, & R. W. Proctor (Eds.). *Big data in psychological research*. Washington, DC: American Psychological Association.

Book Chapters (cont'd.)

- Xiong, A., Proctor, R. W., & Li, N. (2020). Evolution of phishing attacks: Challenges and opportunities for humans to adapt to the ubiquitous connected world. In M. Mouloua & P. A. (Eds.), *Human performance in automated and autonomous systems: Emerging issues and practical perspectives* (pp. 237-257). Boca Raton, FL: CRC Press.
- Proctor, R. W., & Xiong, A. (2018). Experience, skill acquisition, and deliberate practice. In D. Z. Hambrick, G. Campitelli, & B. N. Macnamara (Eds.), *The science of expertise: Behavioral, neural, and genetic approaches to complex skill* (pp. 235-243). New York: Routledge.
- Xiong, A., & Proctor, R. W. (2018). The role of task space in action control: Evidence from research on instructions. In K. D. Federmeier (Ed.), *The psychology of learning and motivation* (Vol. 69; pp. 325-364). Cambridge, MA: Academic Press.
- Vu, K.-P. L., & Proctor, R. W. (2016). Human factors in organizations. In H. L. Miller (Ed.), *The Sage encyclopedia of theory in psychology* (pp. 430-431). Thousand Oaks, CA: Sage.
- Vu, K.-P. L., & Proctor, R. W. (2016). User privacy concerns for E-commerce. In I. Lee (Ed.), *Encyclopedia of E-commerce development, implementation, and management* (Vol. III; pp. 1798-1805). Hershey, PA: IGA Global.
- Yamaguchi, M., & Proctor, R. W. (2015). Perception and attention: A multidimensional approach to human performance modeling. In R. R. Hoffman, P. A. Hancock, M. W. Scerbo, R. Parasuraman, & J. L. Szalma, (Eds.), *The Cambridge Handbook of Applied Perception Research* (Vol. 1; pp. 107-125). New York: Cambridge University Press.
- Proctor, R. W., & Miles, J. D. (2014). Does the concept of affordance add anything to explanations of stimulus-response compatibility effects? In B. H. Ross (Ed.), *The psychology of learning and motivation* (Vol. 60; pp. 227-266). San Diego, CA: Academic Press.
- Capaldi, E. J., & Proctor, R. W. (2013). Implications of postmodernism and its variants for the psychology of science. In G. Feist & M. Gorman (Eds.), *Handbook of the psychology of science* (pp. 329-350). New York, NY: Springer.
- Jolij, J., Johnson, A., & Proctor, R. W. (2013). The cognitive neuroergonomics of perception. In A. Johnson & R. W. Proctor, R. W. (Eds.), *Neuroergonomics: A cognitive neuroscience approach to human factors and ergonomics* (pp. 26-50). Basingstoke, UK: Palgrave Macmillan.
- Proctor, R. W., & Vu, K.-P. L. (2013). Action selection. In A. F. Healy & R. W. Proctor (Eds.), *Experimental psychology* (2nd ed., pp. 295-319). Volume 4 in I. B. Weiner (Editor-in-Chief), *Handbook of psychology*. Hoboken, NJ: John Wiley.
- Capaldi, E. J., & Proctor, R. W. (2012). Psychology of science: Influence on the philosophy of science. In R. W. Proctor & E. J. Capaldi (Eds.), *Psychology of science: Implicit and explicit processes* (pp. 40-56). New York: Oxford University Press.
- Proctor, R. W., & Capaldi, E. J. (2012). Introduction: Implicit and explicit processes in the psychology of science. In R. W. Proctor & E. J. Capaldi (Eds.), *Psychology of science: Implicit and explicit processes* (pp. 1-10). New York: Oxford University Press.
- Proctor, R. W., & Proctor, J. D. (2012). Sensation and perception. In G. Salvendy (Ed.), *Handbook of human factors and ergonomics* (4th ed.; pp. 59-94). Hoboken, NJ: John Wiley.
- Proctor, R. W., & Vu, K.-P. L. (2012). Human information processing. In N. M. Seel (Ed.) *Encyclopedia of the sciences of learning, Part 8* (pp. 1458-1460). Heidelberg/Berlin: Springer Verlag.

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- Proctor, R. W., & Vu, K.-P. L. (2012). Human information processing: An overview for human-computer interaction. In J. Jacko (Ed.), *The human-computer interaction handbook* (3rd ed.; pp. 21-40). Boca Raton, FL: CRC Press.
- Proctor, R. W., & Vu, K.-P. L. (2012). Selection and control of action. In G. Salvendy (Ed.), *Handbook of human factors and ergonomics* (4th ed.; pp. 95-116). Hoboken, NJ: John Wiley.
- Proctor, R. W., Vu, K.-P. L., & Salvendy, G. (2012). Cross-cultural decision making and action: Issues, challenges, and prospects. In R. W. Proctor, S. Nof, & Y. Yih, (Eds.), *Cultural factors in systems design: Decision making and action* (pp. 305-319). Boca Raton, FL: CRC Press.
- Proctor, R. W., Yamaguchi, M., & Miles, J. D. (2012). Acquisition and transfer of basic skill components. In A. F. Healy & L. E. Bourne, Jr., *Training cognition: Optimizing efficiency, durability, and generalizability* (pp. 89-111). New York: Psychology Press.
- Vu, K.-P. L., Proctor, R. W., & Garcia, F. G. (2012). Web site design and evaluation. In G. Salvendy (Ed.), *Handbook of human factors and ergonomics* (4th ed.; pp. 1323-1353). Hoboken, NJ: John Wiley.
- Vu, K.-P. L., Zhu, W., & Proctor, R. W. (2011). Evaluating Web usability. In K.-P. L. Vu & R. Proctor (Eds.), *Handbook of human factors in Web design* (pp. 439-460). Boca Raton, FL: CRC Press.
- Proctor, R. W., & Vu, K.-P. L. (2010). Action selection. In I. B. Weiner & E. Craighead (Eds.), *The Corsini encyclopedia of psychology* (Vol. 1, pp. 20-22). Hoboken, NJ: John Wiley.
- Proctor, R. W., & Vu, K.-P. L. (2010). Human sensation and perception. In J. G. Voeller (Ed.), *Wiley handbook of science and technology for homeland security* (article 293, pp. 1-17). Hoboken, NJ: John Wiley.
- Proctor, R. W., & Vu, K.-P. L. (2010). Human factors and ergonomics. In H. Bidgoli (Ed.), *Handbook of technology management* (Vol. 1: Core concepts, financial tools and techniques, operations and innovation management; pp. 1057-1067). Hoboken, NJ: John Wiley.
- Proctor, R. W., & Yamaguchi, M. (2010). Factors affecting speed and accuracy of response selection in operational environments. In D. H. Andrews, R. P. Herz, & M. B. Wolf (Eds.), *Human factors issues in combat identification* (pp. 31-47). Farnham, UK: Ashgate.
- Proctor, R. W., & Read, L. E. (2009). Editors' introduction. In R. W. Proctor & L. E. Read (Eds.), *Attention* (Vol. 1, pp. xxi-xl). Sage Library in Cognitive and Experimental Psychology. London: Sage Publications.
- Proctor, R. W., Vu, K.-P. L., & Schultz, E. (2009). Human factors in information security and privacy. In J. N. D. Gupta & S. K. Sharma (Eds.), *Handbook of research on information security and assurance* (pp. 402-414). Hershey, PA: Information Science Reference.
- Yamaguchi, M., & Proctor, R. W. (2009). Modeling response times for digital humans. In V. Duffy (Ed.), *Handbook of digital human modeling: Research for applied ergonomics and human factors engineering* (pp. 15-1 – 15-11). Boca Raton, FL: CRC Press.
- Proctor, R. W., & Vu, K.-P. L. (2008). Human information processing: An overview for human-computer interaction. In A. Sears & J. Jacko (Eds.), *The human-computer interaction handbook: Fundamentals, evolving technologies, and emerging applications* (2nd ed.; pp. 43-62). Boca Raton, FL: CRC Press. [Also in A. Sears & J. Jacko (Eds.), *Human-computer interaction fundamentals* (pp. 19-38). Boca Raton, FL: CRC Press.]

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- Proctor, R. W., & Proctor, J. D. (2006). Sensation and perception. In G. Salvendy (Ed.), *Handbook of human factors and ergonomics* (3rd ed., pp. 53-88). Hoboken, NJ: John Wiley.
- Proctor, R. W., & Read, L. E. (2006). Models of attention. In W. Karwowski (Ed.), *International encyclopedia of ergonomics and human factors* (2nd ed.; 439-444). Boca Raton, FL: CRC Press.
- Proctor, R. W., & Vu, K.-P. L. (2006). Laboratory studies of training, skill acquisition, and retention of performance. In K. A. Ericsson, N. Charness, P. J. Feltovich, & R. R. Hoffman (Eds.), *Cambridge handbook of expertise and expert performance* (pp. 265-286). Cambridge, UK: Cambridge University Press.
- Proctor, R. W., & Vu, K.-P. L. (2006). Location and arrangement of displays and control actuators. In W. Karwowski (Ed.), *Handbook of standards and guidelines in ergonomics and human factors* (pp. 399-409). Mahwah, NJ: Lawrence Erlbaum Associates.
- Proctor, R. W., & Vu, K.-P. L. (2006). Selection and control of action. In G. Salvendy (Ed.), *Handbook of human factors and ergonomics* (3rd ed., pp. 89-110). Hoboken, NJ: John Wiley.
- Proctor, R. W., & Vu, K.-P. L. (2006). Stimulus-response compatibility. In W. Karwowski (Ed.), *International encyclopedia of ergonomics and human factors* (2nd ed.; 941-945). Boca Raton, FL: CRC Press.
- Vu, K.-P. L., & Proctor, R. W. (2006). Human information processing: Implications for human factors and human-computer interaction. In W. Karwowski (Ed.), *International encyclopedia of ergonomics and human factors* (2nd ed.; 1130-1134). Boca Raton, FL: CRC Press.
- Vu, K.-P. L., & Proctor, R. W. (2006). Web site design and evaluation. In G. Salvendy (Ed.), *Handbook of human factors and ergonomics* (3rd ed., pp. 1317-1343). Hoboken, NJ: John Wiley.
- Proctor, R. W., & Vu, K.-P. L. (2005). Roles of task-defined associations and reference frames in spatial stimulus-response compatibility. In A. F. Healy (Ed.), *Experimental cognitive psychology and its applications* (pp. 141-153). Washington, DC: American Psychological Association.
- Zhu, W., Vu, K.-P. L., & Proctor, R. W. (2005). Evaluating Web usability. In R. W. Proctor & K.-P. L. Vu (Eds.), *Handbook of human factors in Web design* (pp. 321-337). Mahwah, NJ: Lawrence Erlbaum Associates.
- Proctor, R. W., & Capaldi, E. J. (2004). Teaching scientific methodology. In B. Perlman, L. I. McCann, & S. H. McFadden (Eds.), *Lessons learned: Practical advice for the teaching of psychology* (Vol. 2, pp. 211-220). Washington, DC: American Psychological Society. [Reprinted from *APS Observer*, 16 (No. 1).]
- Proctor, R. W., & Vu, K.-P. L. (2004). Human factors and ergonomics for the Internet. In H. Bidgoli (Ed.), *The Internet encyclopedia* (Vol. 2, pp. 141-149). Hoboken, NJ: John Wiley.
- Capaldi, E. J., & Proctor, R. W. (2003). Current and future trends in experimental psychology. In S. F. Davis (Ed.), *Handbook of research methods in experimental psychology* (pp. 24-38). Malden, MA: Blackwell.
- Proctor, R. W., Capaldi, E. J., & Vu, K.-P. (2003). Experimental methods in psychological research. In L. Nadel (Ed.-in-Chief), *Encyclopedia of Cognitive Science* (pp. 794-799). London: Nature Publishing Group.

Book Chapters (cont'd.)

- Proctor, R. W., & Vu, K.-P. L. (2003). Action selection. In A. F. Healy & R. W. Proctor (Eds.), *Experimental psychology* (pp. 293-316). Volume 4 in I. B. Weiner (Editor-in-Chief) *Handbook of psychology*. New York: John Wiley.
- Proctor, R. W., & Vu, K.-P. L. (2003). Human information processing: An overview for human-computer interaction. In J. A. Jacko & A. Sears (Eds.), *The human-computer interaction handbook: Fundamentals, evolving technologies, and emerging applications* (pp. 35-51). Mahwah, NJ: Lawrence Erlbaum Associates.
- Proctor, R. W., & Vu, K.-P. L. (2002). Eliminating, magnifying, and reversing spatial compatibility effects with mixed location-relevant and irrelevant trials. In W. Prinz & B. Hommel (Eds.), *Common mechanisms in perception and action: Attention and Performance, Vol. XIX* (pp. 443-473). Oxford: Oxford University Press.
- Proctor, R. W. (2001). Stimulus-response compatibility. In W. Karwowski (Ed.), *International encyclopedia of ergonomics and human factors* (Vol. 1, pp. 486-489). London: Taylor & Francis.
- Proctor, R. W., & Read, L. (2001). Models of attention. In W. Karwowski (Ed.), *International encyclopedia of ergonomics and human factors* (Vol. 1, pp. 266-270). London: Taylor and Francis.
- Proctor, R. W., & Proctor, J. D. (1997). Sensation and perception. In G. Salvendy (Ed.), *Handbook of human factors and ergonomics* (2nd ed.; pp. 43-88). New York, NY: Wiley.
- Proctor, R. W., & Wang, H. (1997). Differentiating types of set-level compatibility. In B. Hommel & W. Prinz (Eds.), *Theoretical issues in stimulus-response compatibility* (pp. 11-37). Amsterdam: North-Holland.
- Proctor, R. W., & Dutta, A. (1995). Acquisition and transfer of response-selection skill. In A. F. Healy & L. E. Bourne, Jr. (Eds.), *Learning and memory of knowledge and skills: Durability and specificity* (pp. 300-319). Thousand Oaks, CA: Sage.
- Proctor, R. W., Reeve, T. G., & Van Zandt, T. (1992). Salient-features coding in response selection. In G. E. Stelmach & J. Requin (Eds.), *Tutorials in motor behavior II* (pp. 727-741). Amsterdam: North-Holland.
- Weeks, D. J., & Proctor, R. W. (1992). The visual control of movement. In D. Elliott & L. Proteau (Eds.), *Vision and motor control* (pp. 441-452). Amsterdam: North-Holland.
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- Reeve, T. G., & Proctor, R. W. (1990). The salient features coding principle for spatial- and symbolic-compatibility effects. In R. W. Proctor & T. G. Reeve (Eds.), *Stimulus-response compatibility: An integrated perspective* (pp. 163-180). Amsterdam: North-Holland.
- Proctor, R. W., & Reeve, T. G. (1990). Research on stimulus-response compatibility: Toward a comprehensive account. In R. W. Proctor & T. G. Reeve (Eds.), *Stimulus-response compatibility: An integrated perspective* (pp. 483-494). Amsterdam: North-Holland.
- Proctor, R. W., Reeve, T. G., & Weeks, D. J. (1990). A triphasic approach to the acquisition of response-selection skill. In G. H. Bower (Ed.), *The psychology of learning and motivation: Advances in research and theory* (Vol. 26; pp. 207-240). New York, NY: Academic Press.

Edited Special Issues and Sections

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- Vu, K.-P. L., & Proctor, R. W. (2013, July). *Overview of human information processing for human-computer interaction*. Tutorial conducted at HCI International 2013, Las Vegas, NV.
- Proctor, R. W. (2012, November). *The American Journal of Psychology: Celebrating 125 years of contributions shaping contemporary scientific psychology*. Symposium organized and chaired for the 53rd Annual Meeting of the Psychonomic Society. Minneapolis, MN.
- Proctor, R. W., & Vu, K.-P. L. (2012, July). *Overview of human information processing for human factors and ergonomics*. Tutorial conducted at Applied Human Factors and Ergonomics 2012, San Francisco, CA.
- Proctor, R. W. (2011, July). *Designing web sites and interfaces to optimize successful user interactions*. Symposium organized and chaired for HCI International, 2011, Orlando, FL.
- Proctor, R. W., & Vu, K.-P. L. (2011, July). *Applying cognitive compatibility principles to the design of computer interfaces*. Tutorial conducted at HCI International 2011, Orlando, FL.
- Vu, K.-P. L., & Proctor, R. W. (2011, July). *An overview of human information processing for human-computer interaction*. Tutorial conducted at HCI International 2011, Orlando, FL.
- Proctor, R. W., & Capaldi, E. J. (2010, June 4 and 5). *Psychology of science: Implicit and explicit reasoning*. Second Purdue Symposium on Psychological Sciences. W. Lafayette, IN.
- Proctor, R. W., Nof, S., & Yih, Y. (2010, April 23 and 24). *Cultural factors in decision making and action*. First Gavriel Salvendy International Symposium on Frontiers in Industrial Engineering. W. Lafayette, IN.
- Proctor, R. W. (2009, August). *Biological and Cultural Factors in Applied Experimental Psychology*. Symposium organized and chaired for the American Psychological Association Annual Convention, Toronto, Canada.
- Proctor, R. W. (2009, July). *Practice and training with display-control interfaces*. Symposium organized and chaired for HCI International, 2009, San Diego, CA.
- Proctor, R. W., & Vu, K.-P. L. (2009, July). *An overview of human information processing for human-computer interaction*. Tutorial conducted at HCI International 2009, San Diego, CA.
- Proctor, R. W., & Vu, K.-P. L. (2007, July). *An overview of human information processing for human-computer interaction*. Tutorial conducted at HCI International 2007, Beijing, China.
- Proctor, R. W., & Vu, K.-P. L. (2007, July). *Human aspects of privacy assurance*. Organized and co-chaired symposium held at Human-Computer Interaction International 2007, Beijing China.
- Proctor, R. W., & Vu, K.-P. L. (2005, July). *An overview of human information processing for human-computer interaction*. Tutorial conducted at HCI International 2005, Las Vegas, NV.
- Schultz, E. E., Proctor, R. W., & Vu, K.-P. L. (2005, July). *Human factors in information security*. Tutorial conducted at HCI International 2005, Las Vegas, NV.
- Proctor, R. W., & Vu, K.-P. L. (2003, June). *An overview of human information processing for human-computer interaction*. Tutorial conducted at HCI International 2003, Crete, Greece.

Organized Tutorials and Symposia (cont'd.)

- Schultz, E. E., Proctor, R. W., & Vu, K.-P. L. (2003, June). *Human factors in information security*. Tutorial conducted at HCI International 2003, Crete, Greece.
- Proctor, R. W., & Salvendy, G. (2001, August). *White paper session on "content preparation."* Organized and chaired a one day session with 20 participants to generate a white paper. Human-Computer Interaction International 2001, New Orleans, LA.
- Proctor, R. W. (2001, August). *Content preparation requirements and knowledge elicitation*. Organized and chaired symposium. Human-Computer Interaction International 2001, New Orleans, LA.
- Proctor, R. W. (2001, August). *Application of content preparation to the Web*. Organized and chaired symposium. Human-Computer Interaction International 2001, New Orleans, LA.
- Proctor, R. W. (2001, August). *Contributions of basic research in cognitive psychology to human factors and human-computer interaction*. Organized and chaired symposium. Human-Computer Interaction International 2001, New Orleans, LA.
- Schultz, E. E., & Proctor, R. W. (2001). *Human factors in information security*. Tutorial presented at Human-Computer Interaction International 2001, New Orleans, LA.
- Weeks, D. J., & Proctor, R. W. (1990). *A forty-year perspective on compatibility phenomena: a panel in honor of Arnold M. Small, Sr.* Organized symposium. 34th Annual Meeting of the Human Factors Society, Orlando, FL.
- Reeve, T. G., & Proctor, R. W. (1988). *Stimulus-response compatibility in the study of motor performance*. Symposium organized for the 1988 conference of the North American Society for the Psychology of Sport and Physical Activity, Knoxville, TN, June, 1988. Participants: T. G. Reeve & R. W. Proctor, Auburn University; H. N. Zelaznik & E. Franz, Purdue University; P. C. Gordon, Harvard University; B. Kerr, University of Washington.

Presented Papers and Posters

- Chong, I., & Proctor, R. W. (2019). Are reference items and implied toward and away movements necessary for valence modulation? Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Québec, Canada, November.
- Han, T., & Proctor, R. W. (2019). Effects of a neutral auditory warning signal on performance of a two-choice spatial reaction task. Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Québec, Canada, November.
- Proctor, R. W., & Chong, I. (2019). Paul M. Fitts and James J. Gibson: Uncovering the Carmichael and aviation psychology connections. Paper presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Québec, Canada, November.
- Xiong, A., Proctor, R. W., Xu, Y., & Zelaznik, H. N. (2019). Compatibility effects for 3D objects and 2D pictures: Visual salience or grasping affordance? Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, Québec, Canada, November.
- Chong, I., Proctor, R. W., J. Blocki, & Li, N. (2019, November). Increasing recall of self-generated passwords by providing generation criteria as reminders. Paper presented at the Society for Computers in Psychology, Montreal, QB.

Presented Papers and Posters (cont'd.)

- Zhong, Q., Chong, I., Ge, H., Blocki, J., Li, N., & Proctor, R. W. (2019, November). Increasing recall of self-generated passwords by providing generation criteria as reminders. Paper presented at the Society for Computers in Psychology, Montreal, QB.
- Chong, I., Proctor, R. W., J. Blocki, & Li, N. (2019, October). Password recall following employment of a story-based mnemonic strategy. Paper presented at the Human Factors and Ergonomics Society International Meeting, Seattle, Washington.
- Proctor, R. W. (2019, October). Legacies in human performance and human factors. Poster presented at the Human Factors and Ergonomics Society International Meeting, Seattle, Washington.
- Chong, I., Proctor, R. W., Li, N., & Blocki, J. (2019, August). How do users develop their password management systems? An investigation of password modification. Poster presented at the 127th Annual Meeting of the American Psychological Association, Chicago, Illinois. (Winner of Division 21 Best Poster Award)
- Proctor, R. W. (2019, August). Improving users' cyber security decisions. In Symposium: Helping consumers make better decisions through the way information is presented. Paper presented at the 127th Annual Meeting of the American Psychological Association, Division 21, Chicago, Illinois.
- Chan, J., Chong, I., & Proctor, R. W. (2019, April). Exploration of attentional capture by functional and non-functional object properties. Poster presented at the 90th Annual Meeting of the Midwestern Psychological Association. Chicago, Illinois.
- Chong, I., Proctor, R. W., Li, N., & Blocki, J. (2019, April). Password training using crowdsourcing methods: Results from a one-year follow-up. Poster presented at the 20th Annual Center for Education and Research in Information Assurance and Security Conference. West Lafayette, IN.
- Petersen, C., Chong, I., & Proctor, R. W. (2019, April). Investigation of digital non-human co-actors in the joint Simon task: An extension of Stenzel and Leipelt (2016). Poster presented at the 90th Annual Meeting of the Midwestern Psychological Association. Chicago, Illinois.
- Chong, I., & Proctor, R. W. (2018, November). Influence of hand properties on visual attention in a response-selection task. Poster presented at the 58th Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Griffin-Oliver, C., & Proctor, R. W. (2018, November). Stimulus-response compatibility as a function of stimulus mode and response mode. Poster presented at the 58th Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Hinkson, J., Lien, M.-C., & Proctor, R. W. (2018, November). Emotional-induced attentional bias: Object-based or location-based? Poster presented at the 58th Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Xiong, A., Proctor, R. W., & Zelaznik, H. N. (2018, November). Visual salience, not graspable part of a pictured eating utensil grabs attention. Poster presented at the 58th Annual Meeting of the Psychonomic Society, New Orleans, LA.

Presented Papers and Posters (cont'd.)

- Zhong, Q., Xiong, A., Vu, K.-P. L., & Proctor, R. W. (2018, November). Transfer of incompatible spatial mapping to vertical Simon task is not influenced by manual response mode. Poster presented at the 58th Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Xiong, A., & Proctor, R. W. (2018, November). Role of picture-text correspondence in perceived accuracy of online fake news. Paper presented at the 2018 meeting of the Society for Computers in Psychology. New Orleans, LA.
- Chong, I., Proctor, R. W., Li, N., & Blocki, J. (2018, November). Promotion of complex password generation through privacy priming. Poster presented at the 2018 meeting of the Society for Computers in Psychology. New Orleans, LA.
- Chong, I., Proctor, R. W., Ge, H., & Li, N. (2018, October). Safety priming and subsequent app selection behaviors. Paper presented at the Human Factors and Ergonomics Society's 2018 Annual Meeting, Philadelphia, PA.
- Proctor, R. W. (2018, August). Division 21 Presidential Address: Applied experimental and engineering psychology in the information age and beyond. 126th Annual Convention of the American Psychological Association, San Francisco, CA.
- Proctor, R. W., Chong, I., & Xiong, A. (2018, August). Issues in integrating cyber and physical environments. Talk presented in the symposium, How Technology Contributes to Environmental and Community Sustainability. 126th Annual Convention of the American Psychological Association, San Francisco, CA.
- Moore, S., Ge, H., Li, N., & Proctor, R. W. (2018, July). A user study comparing permissions interfaces of Android 5.0 and Android 6.0. Paper presented in the symposium, Decision Making with Displayed Information. 20th International Conference on Human-Computer Interaction, Las Vegas, NV.
- Proctor, R. W. (2018, July). Overview of research program on cyber decision-making. Organizational Science and Cybersecurity Workshop. George Mason University, Fairfax, VA.
- Xiong, A., & Proctor, R. W. (2018, April). Privacy perception of networked autonomous vehicles as a function of interaction type. Paper presented in the session Data-tracking and Privacy, Technology, Mind, & Society Conference, Washington, DC.
- Griffin-Oliver, C. J., & Proctor, R. W. (2017, November). Influence of target-box onset on spatial compatibility effects for eye-movement responses. Poster presented at the 58th Annual Meeting of the Psychonomic Society. Vancouver, Canada.
- Proctor, R. W., & Xiong, A. (2017, November). Influence of response eccentricity on orthogonal compatibility effects: Physical-location stimuli vs. location words. Poster presented at the 58th Annual Meeting of the Psychonomic Society. Vancouver, Canada.
- Tomko, L., & Proctor, R. W. (2017, November). Selective attention in a bimodal switching paradigm: Does feedback modality matter? Poster presented at the 58th Annual Meeting of the Psychonomic Society. Vancouver, Canada.
- Xiong, A., & Proctor, R. W. (2017, November). Visual and auditory-accessory Simon effect distributions. Poster presented at the 58th Annual Meeting of the Psychonomic Society. Vancouver, Canada.

Presented Papers and Posters (cont'd.)

- Xiong, A., Proctor, R. W. (2017, November). Improvement of detecting spear-phishing emails by embedded skill training. Paper presented at the 2017 meeting of the Society for Computers in Psychology. Vancouver, Canada.
- Chen, J., Mishler, S., Li, N., & Proctor, R. W. (2017, October). Description-experience gap: The role of feedback and description in human trust in automation. Paper presented at the Human Factors and Ergonomics Society 2017 International Annual Meeting, October 9-13, Austin, TX.
- Chong, I., Ge., H., Li, N., & Proctor, R. W. (2017, October). Influence of privacy priming and security framing on Android app selection. Paper presented at the 2017 Annual Meeting of the Human Factors and Ergonomics Society. Austin, TX. (Honorable mention, Marc Resnick Best Paper Award)
- Ding, D., & Proctor, R. W. (2017, October). Visual saliency and spatial compatibility in artificial horizon design. Paper presented at the 2017 Annual Meeting of the Human Factors and Ergonomics Society. Austin, TX.
- Xiong, A., Zou, W., Ge, H., Li, N., & Proctor, R. W. (2017, October). Can the influence of permission safety on app selections be increased by changes in visual representation? Paper presented at the 2017 Annual Meeting of the Human Factors and Ergonomics Society. Austin, TX.
- Proctor, R. W. (2017, August). G. Stanley Hall's vision for psychology as a science. Paper presented in symposium, 125 years of psychology as science within APA, at the 125th Annual Meeting of the American Psychological Association, Washington, DC.
- Proctor, R. W., & Vu, K.-P. L. (2017, August). User research in science of cybersecurity. Paper presented in symposium, Interdisciplinary team research, at the 125th Annual Meeting of the American Psychological Association, Washington, DC.
- Chen, J., Mishler, S., Li, N., & Proctor, R. W. (2017, July). Trust the warning: How differences in automation design influence user's trust and performance for a difficult task. Paper presented at Applied Human Factors and Ergonomics 2017, Los Angeles, CA.
- Kim, B., Kim, K., Ahn, J., & Proctor, R. W. (2017, July). Design and evaluation of an assistive window for soft keyboards of tablet PCs that reduces visual attention shifts. Paper presented at Human-Computer Interaction 2017, Vancouver, Canada.
- Yang, W., Xiong, A., Chen, J., Proctor, R. W., & Li, N. (2017, April). Use of phishing training to improve security warning compliance: Evidence from a field experiment. Paper presented at 4th Annual Hot Topics in the Science of Security (HoTSoS) Symposium and Bootcamp, Hanover, MD.
- Proctor, R. W. (2017, February). Action selection in physical and cyber environments. Talk presented at the Winter School: Human Action Control – Current Theories and Debates, Department of Psychology, Eberhard Karls University of Tübingen, Germany.
- Xiong, A., & Proctor, R. W. (2017, February). The influence of instructions and response eccentricity on conceptual congruency effects. Poster presented at the Winter School: Human Action Control – Current Theories and Debates, Department of Psychology, Eberhard Karls University of Tübingen, Germany.

Presented Papers and Posters (cont'd.)

- Chen, J., Seibold, J. C., Zhang, Q., Müsseler, J., & Proctor, R. W. (2016, November). Do visuospatial reference frames produce performance asymmetries in the Simon task? Evidence from hand- and foot-press responses. Poster presented at the Annual Meeting of the Psychonomic Society. Boston, MA.
- Chen, J., Proctor, R. W., & Li, N. (2016, November). Human trust in automation in a phishing context. Paper presented at the 46th Annual Meeting of the Society for Computers in Psychology. Boston, MA.
- Griffin-Oliver, C., & Proctor, R. W. (2016, November). Set-and-element level compatibility in the oculomotor system. Poster presented at the Annual Meeting of the Psychonomic Society. Boston, MA.
- Xiong, A., Yamaguchi, M., & Proctor, R. W. (2016, November). An alternative multidimensional vector framework for modeling stimulus-response compatibility. Poster presented at the Annual Meeting of the Psychonomic Society. Boston, MA.
- Xiong, A., Proctor, R. W., Li, N., & Yang, W. (2016, November). Use of warnings for instructing users how to detect phishing webpages. Paper presented at the 46th Annual Meeting of the Society for Computers in Psychology. Boston, MA.
- Zhong, Q., Xiong, A., Vu, K.-P. L., & Proctor, R. W. (2016, November). Transfer of incompatible spatial mapping to vertical Simon task is not enhanced by orientation of response keys in the frontal plane. Poster presented at the Annual Meeting of the Psychonomic Society. Boston, MA.
- Chen, J., Ge, H., Proctor, R. W., Li, N., & Yang, W. (2016, September). Display of major risk categories for mobile apps. Paper presented at the 2016 Human Factors and Ergonomics Society International Annual Meeting. Washington, DC.
- Xiong, A., Proctor, R. W., Yang, W., & Li, N. (2016, September). Ineffectiveness of domain highlighting as a tool to help users identify phishing web pages. Paper presented at the 2016 Human Factors and Ergonomics Society International Annual Meeting. Washington, DC.
- Proctor, R. W., Murchison, N. M., & Xiong, A. (2016, August). The link between perception and action: Cognition. Paper presented at the invited symposium, Action, Perception, & Embodiment, at the American Psychological Association Annual Meeting, Denver, CO.
- Murchison, N. M., & Proctor, R. W. (2016, July). Usable interfaces for cyber-enabled buildings. Paper presented at 7th International Conference on Applied HFE, Orlando, FL.
- Chen, J., Xiong, A., Li, N., & Proctor, R. W. (2016, July). The description-experience gap in the effect of warning reliability on user trust, reliance, and performance in a phishing context. Paper presented at the 7th International Conference on Applied Human Factors and Ergonomics, Orlando, FL.
- Xiong, A., Li, N., & Proctor, R. W. (2016, July). Tracking users' fixations when evaluating the validity of a web site. Paper presented at the 7th International Conference on Applied Human Factors and Ergonomics, Orlando, FL.
- Chen, J., Gates, C., Li, N., & Proctor, R. W. (2016, June). Effective risk communication for Android apps: Influence of risk/safety information framing. Poster presented at the ACM Symposium on Access Control Models and Technologies (SACMAT). Shanghai, China.

Presented Papers and Posters (cont'd.)

- Proctor, R. W. (2015, February). A human information-processing analysis of online deception detection. Paper presented at the The Science of Security Quarterly Meeting, North Carolina State, Raleigh, NC.
- Murchison, N., & Proctor, R. W. (2015, November). Use of referential objects for speeded selection of target stimuli in flanker-type tasks. Poster presented at the 56th Annual Meeting of the Psychonomic Society, Chicago, IL.
- Tomko, L., & Proctor, R. W. (2015, November). Crossmodal spatial congruence effects: visual dominance in conditions of increased and reduced selection difficulty. Poster presented at the 56th Annual Meeting of the Psychonomic Society, Chicago, IL.
- Xiong, A., & Proctor, R. W. (2015, November). Influence of color-related radical's function on the Stroop effect. Poster presented at the 56th Annual Meeting of the Psychonomic Society, Chicago, IL.
- Xiong, A., & Proctor, R. W., (2015, November). Referential coding of steering-wheel button presses in a simulated driving cockpit. Poster presented at the 56th Annual Meeting of the Psychonomic Society, Chicago, IL.
- Xiong, A., Yang, W., Li, N., & Proctor, R. W. (2015, November). Improving detection of phishing attacks by directing users' attention to domain highlighted URLs. Paper presented at the 45th Annual Meeting of the Society for Computers in Psychology, Chicago, IL.
- Proctor, R. W. (2015, October). Participant in panel discussion, "The use of simulation to support human factors research", Vernol Battiste, chair. Human Factors and Ergonomics Society 2015 International Meeting, Los Angeles, CA.
- Chen, J., Yang, W., Xiong, A., Li, N., & Proctor, R. W. (2015, August). Warning users of phishing attacks with a Google Chrome extension. Paper presented at Human-Computer Interaction International 2015, Los Angeles, CA.
- Proctor, R. W., & Xiong, A. (2015, July). Response-display compatibility of steering wheel left and right button-controls. Paper presented at the 6th International Conference on Applied Human Factors and Ergonomics, Las Vegas, NV.
- Proctor, R. W., Chen, J., Gates, C. S., Li, N., Jorgensen, Z., & Yu, T. (2015, July). Displaying major risks factors associated with Android apps. Paper presented at the 6th International Conference on Applied Human Factors and Ergonomics, Las Vegas, NV.
- So, C. Y., Proctor, R. W., & Dunston, P. (2015, July). Hierarchical task analysis applied to skill transfer in heavy construction equipment operation. Paper presented at the 6th International Conference on Applied Human Factors and Ergonomics, Las Vegas, NV.
- Chen, H., Chowdhury, O., Li, N., Chen, J., & Proctor, R. W. (2015, April 21). Towards quantification of policy complexity and its application to firewall policies. *Poster presented at the Symposium and Bootcamp on the Science of Security (HotSoS)*. Champaign-Urbana, IL: University of Illinois.
- Yang, W., Chen, J., Xiong, A., Proctor, R. W., Li, N. (2015, April 21). Effectiveness of a phishing warning in field settings. Poster presented at the *Symposium and Bootcamp on the Science of Security (HotSoS)*. Champaign-Urbana, IL: University of Illinois.

Presented Papers and Posters (cont'd.)

- Jorgensen, Z., Chen, J., Gates, C. S., Li, N., Proctor, R. W., & Yu, T. (2015, March). Dimensions of risk in mobile applications: A user study. Paper presented at the Fifth ACM Conference on Data and Application Security and Privacy. San Antonio, TX,
- Chen, J., Gates, C. S., Li, N., & Proctor, R. W. (2014, November). Effective communication of risks for Android apps: Influence of summary risk information and framing. Paper presented at the 44th Annual Meeting of the Society for Computers in Psychology, Long Beach, CA.
- Chen, J., Gates, C., Li, N., & Proctor, R. W. (2014, November). Decision making in Android app selection: Influence of risk/safety framing. Poster presented at the 55th Annual Meeting of the Psychonomic Society, Long Beach, CA.
- Chen, J., & Proctor, R. W. (2014, November). Morin and Grant (1955) Revisited: Influence of action feedback on learning. Poster presented at the 55th Annual Meeting of the Psychonomic Society, Long Beach, CA.
- Pedersen, L., Lien, M.-C., & Proctor, R. W. (2014, November). Stimulus-response correspondence in a visual go-nogo Task: Are reactions altered by the presence of salient objects? Poster presented at the 55th Annual Meeting of the Psychonomic Society, Long Beach, CA.
- Xiong, A., & Proctor, R. W. (2014, November). Influence of stimulus duration and frequency on the auditory Simon effect: Evidence from a reaction-time distribution analysis. Poster presented at the 55th Annual Meeting of the Psychonomic Society, Long Beach, CA.
- Chen, J., Gates, C. S., Proctor, R. W., & Li, N. (2014, October). Framing of summary risk/safety information and app selection. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society. Chicago, IL.
- Proctor, R. W. (2014, October). Research on basic and applied human performance. Poster presented in the Fellows Poster Session. Annual Human Factors and Ergonomics Society International Annual Meeting, Chicago, IL.
- So, J. C. Y., Proctor, R. W., & Dunston, P. S. (2014, October). Training on perceptual-motor tasks using simulated construction equipment. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society. Chicago, IL.
- Proctor, R. W., & Chen, J. (2014, June). Influence of action-effect feedback on learning and performance of a key-pressing task. Paper presented at Applications of Learning, Memory and Cognition to Real-World Situations, Festschrift for Alice F. Healy. Boulder, CO: University of Colorado.
- Proctor, R. W., & Urcuioli, P. (2014, May). Human performance research: Functional relations and cognitive psychology. Paper presented at the meeting "Building Bridges between Functional and Cognitive Psychology". Ghent, Belgium: Ghent University.
- Proctor, R. W. (2014, March). Thoughts about an Academic Career in Human Factors. Invited talk presented at the 9th Annual Regional Human Factors Conference, hosted by the Student Chapter of the Human Factors and Ergonomics Society, California State University, Long Beach, CA.

Presented Papers and Posters (cont'd.)

- Chen, J., Song, X., & Proctor, R. W. (2013, November). Grasping affordance or feature asymmetry in correspondence effects for flashlights. Poster presented at the 54th Annual Meeting of the Psychonomic Society. Toronto, Canada.
- Gray, D. G., Jardin, E., Lien, M.-C., & Proctor, R. W. (2013, November). What shape or color is the door handle? Correspondence effects are modulated by object location not grasping. Poster presented at the 54th Annual Meeting of the Psychonomic Society. Toronto, Canada.
- Murchison, N. M., & Proctor, R. W. (2013, November). How hand posture modulates interference from extraneous information in a flanker task. Poster presented at the 54th Annual Meeting of the Psychonomic Society. Toronto, Canada.
- Yamaguchi, M., & Proctor, R. W. (2013, November). Transfer of spatial associations to the vocal Simon task. Poster presented at the 54th Annual Meeting of the Psychonomic Society. Toronto, Canada.
- Proctor, R. W. (2013, October). Basic and applied human performance. Poster presented in the Fellows Poster Session. Human Factors and Ergonomics Society International Annual Meeting. San Diego, CA.
- Proctor, R. W. (2013, August). Interdisciplinary research with engineers and computer scientists. In symposium on Succeeding in Horizontal Collaborations, at the 121st Annual Convention of the American Psychological Association. Honolulu, HI.
- Proctor, R. W. (2013, July). Challenges in conducting human performance research applicable to operational environments. In symposium on Human Performance Measurement for the Evaluation of NextGen, at the 121st Annual Convention of the American Psychological Association. Honolulu, HI.
- Chen, J., & Proctor, R. W. (July, 2013). Intuitive design for non-touch screen scrolling: Evidence from a continuous text-movement task. Paper presented at HCI International 2013, Las Vegas, NV.
- Guo, Y., Zhu, Y., Salvendy, G., & Proctor, R. W. (2013, July). Value added by the axiomatic usability method for evaluating consumer electronics. Paper presented at HCI International 2013, Las Vegas, NV.
- Gates, C., Li, N., Chen, J., & Proctor, R. W. (2012, December). CodeShield: Towards personalized application whitelisting. Paper presented at the 28th Annual Computer Security Applications Conference (ACSAC) 2012. Orlando, FL.
- Chen, J., & Proctor, R. W. (2012, November). A conceptual response-distance effect for the Stroop task. Poster presented at the 53rd Annual Meeting of the Psychonomic Society. Minneapolis, MN.
- Jardin, E., Lien, M.-C., & Proctor, R. W. (2012, November). An electrophysiological study of object-based correspondence effects: Is visual processing modulated by the intended action? Poster presented at the 53rd Annual Meeting of the Psychonomic Society. Minneapolis, MN.

Presented Papers and Posters (cont'd.)

- Murchison, N., & Proctor, R. W. (2012, November). Spatial compatibility effects for unimanual and bimanual wheel-rotation responses. Poster presented at the 53rd Annual Meeting of the Psychonomic Society. Minneapolis, MN.
- Proctor, R. W. (2012, November). *The American Journal of Psychology*: Past, Present, and Future. Paper presented in the symposium, "The American Journal of Psychology: Celebrating 125 years of contributions shaping contemporary scientific psychology," at the 53rd Annual Meeting of the Psychonomic Society. Minneapolis, MN.
- Chen, J., & Proctor, R. W. (2012, October). Up or down: Directional stimulus-response compatibility and natural scrolling. Paper presented at the 56th Annual Meeting of the Human Factors and Ergonomics Society. Boston, MA.
- So, J. C. Y., Dunston, P. S., & Proctor, R. W. (2012, October). Impact of interrupting simulated hydraulic excavator training with simulated loader training. Paper presented at the 56th Annual Meeting of the Human Factors and Ergonomics Society. Boston, MA.
- So, J. C. Y., Proctor, R. W., Dunston, P. (2012, July). Transfer of learning across two earthmoving equipment simulators. Paper presented at the 4th International Conference on Applied Human Factors and Ergonomics. San Francisco, CA.
- Chen, J., & Proctor, R. W. (2012, May). Key distance not hand distance influences the Stroop color-identification effect. Poster presented at the 24th Annual Convention of the Association for Psychological Science, Chicago, IL.
- Chen, J., & Proctor, R. W. (2012, May). The response distance effect in the Stroop color-identification task: Key or hand separation? Poster presented at the 2nd annual Midwest Cognitive Science Conference, Bloomington, IN.
- Proctor, R. W. (2012, May). *The American Journal of Psychology*: A 125-year record of progress of scientific psychology. Paper presented at the 2nd annual Midwest Cognitive Science Conference, Bloomington, IN.
- Proctor, R. W., Capaldi, E. J., & Francis, G. (2012, May). Educating Students in the Practice of Psychological Science. Paper present in Brian D. Haig (Chair), Symposium: Reforming psychology's research methods curriculum. 24th Annual Convention of the Association for Psychological Science, Chicago, IL.
- Proctor, R. W., Dunston, P. S., So, J. C. Y., & Wang, X. (2012, May). Task analysis for improving training of construction equipment operators. Paper presented at the *Construction Research Congress 2012: Construction Challenges in a Flat World*. West Lafayette, IN.
- So, J. C. Y., Proctor, R. W., Dunston, P., & Wang, X. (2012, May), Acquisition and retention of skill at operating a simulated hydraulic excavator using part- and whole-task training. Poster presented at the 2nd annual Midwest Cognitive Science Conference, Bloomington, IN.
- Chen, J., & Proctor, R. W. (2011, November). Influence of name-identity on physical same-different letter matching. Poster presented at the 52nd Annual Meeting of the Psychonomic Society. Seattle, WA.

Presented Papers and Posters (cont'd.)

- Miles, J. D., & Proctor, R. W. (2011, November). Are arrows more like locations or words? A correlative analysis of spatial compatibility effects. Poster presented at the 52nd Annual Meeting of the Psychonomic Society. Seattle, WA.
- Jeong, K.-A., & Proctor, R. W. (2011, September). Incorporating privacy properties in remote/home healthcare systems: Human factors considerations. Paper presented at the 55th Annual Meeting of the Human Factors and Ergonomics Society. Las Vegas, NV.
- Proctor, R. W., & Vu, K.-P. L. (2011, August). Specificity of transfer in basic and applied tasks. Paper presented in symposium: Applications of Research in Cognitive Psychology to Training in the Real World (A. F. Healy, organizer), at the 119th Annual Convention of the American Psychological Association. Washington, DC.
- Guo, Y., Proctor, R. W., & Salvendy, G. (2011, July). A conceptual model of the axiomatic usability evaluation method. Paper presented at HCI International 2011, Orlando, FL.
- Wang, X., Dunston, P. S., Proctor, R. W., Hou, L., & Yin, C. (2011, June). Reflections on using a game engine to develop a virtual training system for construction excavator operators. Paper presented at the 28th Annual Symposium on Automation and Robots in Construction. Seoul, Korea.
- Proctor, R. W., Dunston, P. S., & Wang, X., (2011, March). Skill training and transfer using construction equipment simulators. Paper presented in the symposium, Principles of Training (A. F. Healy, organizer), at the 57th Annual Meeting of the Southeastern Psychological Association, Jacksonville, FL.
- Baroni, G., Yamaguchi, M., & Proctor, R. W. (2010, November). Transfer from a color-mapping task to a Simon task for shapes. Paper presented at the 51st Annual Meeting of the Psychonomic Society, St. Louis, MO.
- Miles, J. D., & Proctor, R. W. (2010, November). Feature attraction between controlled objects and targets. Poster presented at the 51st Annual Meeting of the Psychonomic Society, St. Louis, MO.
- Yamaguchi, M., & Proctor, R. W. (2010, November). Automatic implementation of task-defined rules: Active maintenance or memory retrieval? Paper presented at the 51st Annual Meeting of the Psychonomic Society, St. Louis, MO.
- Zhang, Y., & Proctor, R. W. (2010, November). The effect of reference valence on affective stimulus–response compatibility. Poster presented at the 51st Annual Meeting of the Psychonomic Society, St. Louis, MO.
- Zeng, L., Proctor, R. W., & Salvendy, G. (2010, September). Harnessing the user's mental power to leverage website creativity: The meta-design approach to Web personalization. Paper presented at the *Human Factors and Ergonomics Society's 54th Annual Meeting*, San Francisco, CA.
- Proctor, R. W., Yamaguchi, M., Gonzalez, C., & Dutt, V. (2010, August). Spatial compatibility effects in a complex task environment. Paper presented at the 118th Annual Convention of the American Psychological Association. San Diego, CA.

Presented Papers and Posters (cont'd.)

- Dunston, P. S., Proctor, R. W., Su, X., Yamaguchi, M., Wang, X., & Chen, R. (I.) (2010, May). Principles for utilization of construction equipment operator training simulators. *Construction Research Congress: 2010: Innovation for Reshaping Construction Practice*, Banff, Alberta, CA.
- Proctor, R. W. (2010, April). Experiments on acquisition and retention of basic components of skill. Paper presented in the 2010 Ellis-Battig Memory Symposium, Optimizing the Training of Knowledge and Skills: A Review of Accomplishments from the Multidisciplinary University Research Initiative (MURI) on Training, 80th Rocky Mountain Psychological Association Conference, Denver, CO.
- Miles, J. B., & Proctor, R. W. (2010, April). Attention is required for the acquisition of new spatial associations but not their expression. Paper presented at the 80th Rocky Mountain Psychological Association Conference, Denver, CO.
- Yamaguchi, M., & Proctor, R. W. (2010, April). A vector representation underlying response-selection processes. Poster presented at the 80th Rocky Mountain Psychological Association Conference, Denver, CO.
- Cho, D. (T.), & Proctor, R. W. (2009, November). Correspondence effects for objects with left and right protrusions. Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
- Proctor, R. W., & Yamaguchi, M. (2009, November). A Vector model of the Simon effect. Paper presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
- Miles, J. D., & Proctor, R. W. (2009, November). Object and goal locations contribute additively to the Simon effect. Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
- Rotterman, A., Vu, K.-P. L., & Proctor, R. W. (2009, November). Effects of practice with noncorresponding location words on the Simon task. Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
- Yamaguchi, M., & Proctor, R. W. (2009, November). Validating the vector model assumptions: Extension to a Simon task with multidimensional responses. Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
- Zhang, Y., & Proctor, R. W. (2009, November). Comparison of affective and spatial Simon effects for word stimuli. Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
- Proctor, R. W., & Vu, K.-P. L. (2009, August). Biological, ecological, and cultural contributions to display-control compatibility. Paper presented at 117th Annual Convention of the American Psychological Association Annual Convention, Toronto, Canada.
- Dutt, V., Yamaguchi, M., Gonzalez, C., & Proctor, R. W. (2009, July). An instance-based learning model of stimulus-response compatibility effects in mixed location-relevant and location-irrelevant tasks. Poster presented at 9th International Conference on Cognitive Modeling, Manchester, UK.
- Guo, Y., Proctor, R. W., & Salvendy, G. (2009, July). What do users want to see? A content preparation study for consumer electronics. Paper presented at Human-Computer Interaction International 2009, San Diego, CA.

Presented Papers and Posters (cont'd.)

- Hiremath, V., Proctor, R. W., Fanjoy, R. O., Feyen, R. G., & Young, J. P. (2009, July). Comparison of pilot recovery and response times in two types of cockpits. Paper presented at Human-Computer Interaction International 2009. San Diego, CA.
- Jeong, K.-A., Proctor, R. W., & Salvendy, G. (2009, July 2009). Grouping preferences of Americans and Koreans in interfaces for smart home control. Paper presented at Human-Computer Interaction International 2009. San Diego, CA.
- Kim, K., Proctor, R. W., & Salvendy, G. (2009, July). Menu design in cell phones: Use of 3D menus. In J. A. Jacko (Ed.), Paper presented at Human-Computer Interaction International 2009. San Diego, CA.
- Kukula, E. P., & Proctor, R. W. (2009, July). Human-biometric sensor interaction: Impact of training on biometric system and user performance. Paper presented at Human-Computer Interaction International 2009. San Diego, CA.
- Zeng, L., Proctor, R. W., & Salvendy, G. (2009, July). Integration of creativity into website design. Paper presented at Human-Computer Interaction International 2009. San Diego, CA.
- Yamaguchi, M., & Proctor, R. W. (2009, April). A compatibility analysis of attitude display formats. Paper presented at the 15th Annual Symposium on Aviation Psychology, Dayton, OH.
- Eder, A. B., Rothermund, K., & Proctor, R. W. (2009, March). The prepared emotional reflex: Intentional preparation of automatic approach and avoidance tendencies. Paper presented at the "51. Tagung für experimentell arbeitende Psychologen [TeaP]", Jena, Germany.
- Miles, J. R. (2008, November). Do response biases created by task instructions override pre-existing response biases. Poster presented at the 49th annual meeting of the Psychonomic Society, Chicago, IL.
- Proctor, R. W., Pick, D. F., & Wang, D. (2008, November). Examination of strategy changes as a function of individual-task payoffs in a synthetic work environment. Paper presented at the 38th Annual Meeting of the Society for Computers in Psychology, Chicago, IL.
- Read, L. R. (2008, November). Negative priming in six-choice tasks with spatially incompatible mappings. Poster presented at the 49th annual meeting of the Psychonomic Society, Chicago, IL.
- Shin, Y. K., & Proctor, R. W. (2008, November). Modulation of action selection by action effect anticipation. Poster presented at the 49th annual meeting of the Psychonomic Society, Chicago, IL.
- Vu, K.-P. L., Proctor, R. W., Minakata, K., & Ngo, T. K. (2008, November). Shared verbospatial and visuospatial representations for bilinguals' primary language. Poster presented at the 49th annual meeting of the Psychonomic Society, Chicago, IL.
- Zhang, Y., & Proctor, R. W. (2008, November). Affective-movement compatibility depends on relative location, not representation of self in space. Poster presented at the 49th annual meeting of the Psychonomic Society, Chicago, IL.
- Vu, K.-P. L., Proctor, R. W., & O'Brien, D. (2008, July). Influence of password updating on generation and retention of passwords. Paper presented at *Applied Human Factors and Ergonomics 2008*. Las Vegas, NV.

Presented Papers and Posters (cont'd.)

- Cho, D. (T.), & Proctor, R. W. (2008, May). Within- and between-hand correspondence effects for object locations and graspable components. Poster presented at Conference on the Science and Applications of Perception Psychology. Cincinnati, OH.
- Miles, J. D., & Proctor, R. W. (2008, May). Compatibility effects with degraded stimulus features: Roles of attention and response overlap. Poster presented at the 20th Annual Convention of the Association for Psychological Science, Chicago, IL.
- Miles, J. D., Yamaguchi, M., & Proctor, R. W. (2008, May). Interfering with interference: diffusion of task interference from an irrelevant display attribute. Poster presented at Conference on the Science and Applications of Perception Psychology. Cincinnati, OH.
- Proctor, R. W. (2008, May). The application of experimental psychology to national needs. Panel participant at Conference on the Science and Applications of Perception Psychology. Cincinnati, OH.
- Proctor, R. W., & Yamaguchi, M. (2008, May). Factors affecting speed and accuracy of response selection in operational environments. Paper presented at Workshop on Human Factors Issues: In Combat Identification & in Imagery Analysis Using Unmanned Aerial Vehicles, Gold Canyon, AZ.
- Shao, C., Proctor, R. W., Castillo, J. G., Olulade, O., & Talavage, T. M. (2008, April). Comparison of two SRC tasks: Shared neural basis for different spatial stimulus modes. Poster presented at the Second Annual Indiana Neuroimaging Symposium, Indianapolis, IN.
- Müsseler, J., Aschersleben, G., Arning, K., & Proctor, R. W. (2008, March). Spatial compatibility vs. affective valence compatibility in natural scenes. Tagung experimentell arbeitender Psychologen (Experimental psychologists working session). Marburg, Germany.
- O'Brien, D. G., Proctor, R. W., & Vu, K.-P. L. (2008, March). Memorability Issues Associated with Updating Passwords. Poster presented at the 9th Annual CERIAS Information Security Symposium. W. Lafayette, IN.
- Bae, G. Y., Choi, J. M., Cho, Y. S., & Proctor, R. W. (2007, November). Transfer of orthogonal and parallel incompatible mapping to the SNARC effect. Poster presented at the 48th Annual Meeting of the Psychonomic Society. Long Beach, CA.
- Cho, D., & Proctor, R. W. (2007, November). Within- and between-hand Simon effects for object locations and graspable components. Poster presented at the 48th Annual Meeting of the Psychonomic Society. Long Beach, CA.
- Roswarski, T. E., Murray, M. D., & Proctor, R. W. (2007, November). Framing, patient characteristics, and treatment selection in medical decision-making. Paper presented at USAB 07 - 3rd Symposium of the WG HCI&UE of the Austrian Computer Society: Usability and Human-Computer Interaction for Medicine and Health Care. Graz, Austria.
- Vu, K.-P. L., & Proctor, R. W. (2007, November). Dual-task performance with consistent and inconsistent stimulus-response mappings. Poster presented at the 48th Annual Meeting of the Psychonomic Society. Long Beach, CA.
- Yamaguchi, M., & Proctor, R. W. (2007, November). Compatibility for pure and mixed mappings of discrete and continuous stimuli and responses. Poster presented at the 48th Annual Meeting of the Psychonomic Society. Long Beach, CA.

Presented Papers and Posters (cont'd.)

- Zhang, Y., & Proctor, R. W. (2007, November). Influence of intermixed emotion-relevant trials on the affective Simon effect. Poster presented at the 48th Annual Meeting of the Psychonomic Society. Long Beach, CA.
- Proctor, R. W., Vu, K.-P. L., & Ali, M. A. (2007, July). Usability of user agents for privacy-preference specification. Paper presented at HCI International 2007, Beijing, China.
- Vu, K.-P. L., Chambers, V., Garcia, F. P., Creekmur, B., Sulaitis, J., Nelson, D., Pierce, R., & Proctor, R. W. (2007, July). How users read and comprehend privacy policies. Paper presented at HCI International 2007, Beijing, China.
- Vu, K.-P. L., Garcia, F. P., Nelson, D., Sulaitis, J., Creekmur, B., Chambers, V., & Proctor, R. W. (2007, July). Examining user privacy practices while shopping online: What are users looking for? Paper presented at HCI International 2007, Beijing, China.
- Cho, Y. S., & Proctor, R. W. (2007, May). Simon effect for orthogonal stimulus-response arrangements as a function of response position and hand posture. Poster presented at Association for Psychological Science 19th Annual Convention. Washington, DC.
- Proctor, R. W., Zhang, Y., Yamaguchi, M., & Vu, K.-P. L. (2007, April). Modulation of the Simon effect by learned incompatible S-R associations. Invited paper presented in Symposium: Attention and Control: How Irrelevant Information Affects Response Selection and How Control Processes Intervene. Joint Meeting of the Experimental Psychology Society and the Belgian Association for Psychological Science (EPS/BAPS), Cardiff, Wales.
- Proctor, R. W., Ali, M. A., Vu, K.-P. L., & Cho, D. (2007, April). Usability of user agents for privacy-preference specification. Poster presented at 3rd Midwest Security Workshop. W. Lafayette, IN.
- Yamaguchi, M., & Proctor, R. W. (2007, April). Effect of display format on attitude-maintenance performance. Paper presented at the 14th International Symposium on Aviation Psychology, Dayton, OH.
- Bae, G. Y., Cho, Y. S., & Proctor, R. W. (2006, November). Transfer of orthogonal and parallel incompatible mappings to an orthogonal Simon task. Poster presented at the 47th Annual Meeting of the Psychonomic Society. Houston, TX.
- Kim, H. S., Cho, Y. S., & Proctor, R. W. (2006, November). Color word availability modulates the Stroop effect. Poster presented at the 47th Annual Meeting of the Psychonomic Society. Houston, TX.
- Proctor, R. W., & Vu, K.-P. L. (2006, November). Qualitative and quantitative analyses of Web privacy policies and preferences. Paper presented at the 36th Annual Meeting of the Society for Computers in Psychology. Houston, TX.
- Proctor, R. W., Yamaguchi, M., & Vu, K.-P. L. (2006, November). Transfer of noncorresponding spatial mappings to the auditory Simon task. Paper presented at the 47th Annual Meeting of the Psychonomic Society. Houston, TX.
- Yamaguchi, M., & Proctor, R. W. (2006, November). Pure and mixed stimulus-response mappings in flight and non-flight tasks. Paper presented at the 47th Annual Meeting of the Psychonomic Society. Houston, TX.

Presented Papers and Posters (cont'd.)

- Proctor, R. W., Ali, M. A., & Vu, K.-P. L. (2006, July). Information requested by Web sites and users' comprehension of privacy policies. Poster presented at 2nd Symposium on Usable Privacy and Security. Pittsburgh, PA.
- Vu, K.-P. L., Cook, J., Bhargav-Spantzel, A., & Proctor, R. W. (2006, April). Short- and long-term retention of passwords generated by different methods. Paper presented at the 5th Annual Security Conference. Las Vegas, NV
- Wang, D.-Y. D., Pick, D. F., Proctor, R. W., Cho, Y. S., & Patel, D. (2006, April). Contribution of sound to perception of CVT performance. Paper presented at the SAE 2006 World Congress. Detroit, MI.
- Cho, Y. S., & Proctor, R. W. (2005, November). Influence of task rule on the MARC effect. Poster presented at the 46th Annual Meeting of the Psychonomic Society. Toronto, CA.
- Vu, K.-P. L., & Proctor, R. W. (2005, November). The role of perceptual emergent features in dual-task performance. Poster presented at the 46th Annual Meeting of the Psychonomic Society. Toronto, CA.
- Wang, D.-Y. D., Proctor, R. W., & Pick, D. F. (2005, November). Direction and size of the Simon effect with wheel-rotation responses. Poster presented at the 46th Annual Meeting of the Psychonomic Society. Toronto, CA.
- Pellicano, A., Vu, K.-P. L., Proctor, R. W., Nicoletti, R., & Umiltà, C. (2005, September). Simon-like effect based on stimulus-response short-term memory associations. Poster presented at the XIV Conference of the European Society for Cognitive Psychology. Leiden, The Netherlands.
- Proctor, R. W., Ali, M. A., & Vu, K.-P. L. (2005, September). *Examining the usability of Web privacy policies*. Poster presented at the 2005 NSF Cyber Trust Principal Investigators Meeting. Newport Beach, CA.
- Proctor, R. W., Tan, H. Z., Vu, K.-P. L., Gray, R., & Spence, C. (2005, June). Implications of compatibility and cuing effects for multimodal interfaces. Paper presented at the 1st Augmented Cognition International Conference. Las Vegas, NV: June.
- Vu, K.-P. L., & Proctor, R. W. (2005, June). An overview of human factors in web and application design. Paper presented at HCI International 2005, Las Vegas, NV.
- Vu, K.-P. L., & Proctor, R. W. (2005, May). Age differences in response selection for pure and mixed tasks. Poster presented at the 17th Annual Convention of the American Psychological Society, Los Angeles, CA.
- Pick, D. F., Wang, D.-Y. D., Proctor, R. W., & Patel, D. (2005, April). Dead pedal and the perception of continuously variable transmission performance. Paper presented at the SAE 2005 World Congress. Detroit, MI
- Proctor, R. W., Young, J., Fanjoy, R., Feyen, R., Hartman, H., & Hiremath, V. (2005, April). Simulating glass cockpit displays in a general aviation flight environment. Paper presented at the 13th International Symposium on Aviation Psychology. Oklahoma City, OK.

Presented Papers and Posters (cont'd.)

- Read, L. E., Gurkas, P., & Proctor, R. W. (2005, April). Linking negative priming, stimulus-response compatibility, and effortful control. Poster presented at the 2005 Biennial Meeting of the Society for Research in Child Development. Atlanta, GA.
- Ali, M. A., Vu, K.-P. L., & Proctor, R. W. (2005, March). *An analysis of privacy and security information provided and elicited by different types of Web sites*. Poster presented at the 6th Annual CERIAS Conference Information Security Symposium: Security in Motion. W. Lafayette, IN.
- Young, J. P., Hartman, N. W., Fanjoy, R. O., Feyen, R. G., Proctor, R. W., Eiff, G., and student authors. (2005, March). *Flight display technology human factors*. Poster presented at the 9th Annual Teaching and Learning with Technology Conference. W. Lafayette, IN.
- Cho, Y. S., Lien, M.-C., & Proctor, R. W. (2004, November). Stroop dilution depends on the role of the color word. Poster presented at the 45th annual meeting of the Psychonomic Society, Minneapolis, MN.
- Proctor, R. W. (2004, November). Methodology is more than research design and technology. Presidential address presented at the 34th annual meeting of the Society for Computers in Psychology.
- Read, L. E., & Proctor, R. W. (2004, November). Negative priming and stimulus-response compatibility: Implications for control of action. Poster presented at the 45th annual meeting of the Psychonomic Society, Minneapolis, MN.
- Vu, K.-P. L., Proctor, R. W., & Pick, D. F. (2004, November). Negative priming and stimulus-response compatibility: Implications for control of action. Poster presented at the 45th annual meeting of the Psychonomic Society, Minneapolis, MN.
- Vu, K.-P. L., Tai, B.-L. B., Bhargav, A., Schultz, E. E., & Proctor, R. W. (2004, September 23). Promoting memorability and security of passwords through sentence generation. Paper presented at the Human Factors and Ergonomics Society 48th Annual Meeting, New Orleans, LA.
- Pellicano, A., Vu, K.-P. L., Proctor, R. W., Nicoletti, R., & Umiltà, C. (2004, May). Simon effect as a function of stimulus-stimulus short-term memory links. Poster presented at the American Psychological Society 16th Annual Convention, Chicago, IL.
- Read, L., & Proctor, R. W. (2004, May). Stimulus-response compatibility, negative priming, and stimulus uncertainty. Poster presented at the American Psychological Society 16th Annual Convention, Chicago, IL.
- Anderson, R. E., Vu, K.-P. L., Pick, D. F., & Proctor, R. W. (2004, April 5) Effects of irrelevant location information on performance of older and younger adults. Poster presented at symposium on Early Origins of Adult Health: Biological Processes. W. Lafayette, IN.
- Bhargav, A., Vu, K.-P. L., & Proctor, R. W. (2003). *Imposing password restrictions for multiple accounts: Impact on generation and recall of passwords*. Poster presented at the CERIAS Fourth Annual Information Security Symposium, the Energizing the Enterprise Research Poster Session, and Cyber-Infrastructure Workshop Poster Session. W. Lafayette, IN, April 8, May 14, and August 18.

Presented Papers and Posters (cont'd.)

- Cho, Y.-S., & Proctor, R. W. (2003). *Compatibility effects for orthogonal display-control arrangements*. Poster presented at the International Ergonomics Association XVth Triennial Congress, Seoul, Korea, August.
- Cho, Y.-S., & Proctor, R. W. (2003). *Stimulus-set position and orthogonal stimulus-response compatibility*. Poster presented at the 44th annual meeting of the Psychonomic Society, Vancouver, CA, November.
- Lien, M.-C., McCann, R. S., Ruthruff, E., & Proctor, R. W. (2003). *Processing limitations in dual-task performance: Are ideomotor-compatible tasks special?* Paper presented at the 44th annual meeting of the Psychonomic Society, Vancouver, CA, November.
- Pick, D. F., Proctor, R. W., & Vu, K.-P. L. (2003). *A factor influencing age differences in the Simon effect*. Poster presented at the 44th annual meeting of the Psychonomic Society, Vancouver, CA, November.
- Proctor, R. W., & Vu, K.-P. L. (2003). *Stimulus-response compatibility and aging: Implications for web design*. Participant and presenter in Workshop on Web and Aging, HCI International 2003, Crete, Greece, June 25.
- Proctor, R. W., Vu, K.-P. L., & Urcuioli, P. (2003). *Influence of incompatible location mappings on subsequent location irrelevant tasks*. Paper presented at the 44th annual meeting of the Psychonomic Society, Vancouver, CA, November.
- Read, L., & Proctor, R. W. (2003). *Symbolic stimulus-response compatibility and negative priming*. Poster presented at the 15th annual convention of the American Psychological Society, Atlanta, GA, May 30.
- Vu, K.-P. L., Bhargav, A., & Proctor, R. W. (2003). *Imposing password restrictions for multiple accounts: Impact on generation and recall of passwords*. Paper presented at the 47th annual meeting of the Human Factors and Ergonomics Society, Denver, CO, October 14.
- Wang, D.-Y., Proctor, R. W., & Pick, D. F. (2003). *Stimulus-response compatibility effects for warning signals and steering responses*. Paper presented at 2nd International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Park City, Utah, July.
- Cho, Y. S., & Proctor, R. W. (2002, November). *Orthogonal stimulus-response compatibility as a function of response location relative to the stimulus display*. Poster presented at the 43rd annual meeting of the Psychonomic Society, Kansas City, MO.
- Proctor, R. W., Vu, K.-P. L., & Nicoletti, R. (2002, November). *A prevalence effect for two-dimensional stimulus-response sets when location is irrelevant*. Poster presented at the 43rd annual meeting of the Psychonomic Society, Kansas City, MO.
- Wang, D.-Y., Proctor, R. W., & Pick, D. F. (2002, November). *Influences of instructions and visual feedback on the Simon effect for wheel-rotation responses*. Poster presented at the 43rd annual meeting of the Psychonomic Society, Kansas City, MO.
- Proctor, R. W., & Vu, K.-P. L. (2002, August). *Violations of the spatial compatibility principle: Theoretical and applied implications*. Paper presented at the 2002 Annual Convention of the American Psychological Association, Chicago, IL.

Presented Papers and Posters (cont'd.)

- Proctor, R. W., & Vu, K.-P. L. (2002, May). *Altering spatial compatibility effects by mixing tasks with multiple S-R mappings*. Paper presented at the ONR workshop on Attention, Perception, and Data Visualization, Alexandria, Virginia, May 22-24, 2002.
- Read, L. E., & Proctor, R. W. (2002, May). *Stimulus-response compatibility and negative priming: Implications for response selection*. Paper presented at the 2002 Convention of the Midwestern Psychological Association, Chicago, IL.
- Vu, K.-P. L., & Proctor, R. W. (2002, April). *Two-dimensional stimulus-response compatibility effects: Manipulating the salience of stimulus and response sets*. Paper presented at the 2002 Convention of the Western Psychological Association, Irvine, CA.
- Cho, Y. S., Proctor, R. W., & Weeks, D. J. (2001, November). *Orthogonal stimulus-response compatibility: Hand posture and response eccentricity effects*. Poster presented at the 42nd annual meeting of the Psychonomic Society, Orlando, FL.
- Lien, M.-C., Proctor, R. W., & Allen, P. A. (2001, November). *Ideomotor compatibility in the psychological refractory period effect*. Poster presented at the 42nd annual meeting of the Psychonomic Society, Orlando, FL.
- Proctor, R. W., Lien, M.-C., Vu, K.-P. L., Schultz, E. E., & Salvendy, G. (2001, November). *Influence of restrictions on password generation and recall*. Paper presented at the 31st annual meeting of the Society for Computers in Psychology, Orlando.
- Vu, K.-P. L., & Proctor, R. W. (2001, November). *Elimination and enhancement of spatial compatibility effects with mixed mappings*. Poster presented at the 42nd annual meeting of the Psychonomic Society, Orlando, FL.
- Vu, K.-P. L., & Proctor, R. W. (2001, August). *Stimulus-response compatibility in interface design*. Paper presented in the symposium: Contributions of basic research in cognitive psychology to human factors and human-computer interaction. Human-Computer Interaction International 2001, New Orleans, LA.
- Wang, D.-Y., Pick, D. F., & Proctor, R. W. (2001, August). *Performance on cue recognition and evasive action skills as predictors of effective driving in college-age drivers*. Poster presented at the 1st International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Aspen, Colorado.
- Schweickert, R., Proctor, R. W., & Fisher, D. L. (2001, July). *Estimating activity durations in cognitive task analysis*. Society for Mathematical Psychology 34th Annual Meeting, Providence, RI.
- Vu, K.-P. L., & Proctor, R. W. (2001, June). *Two-dimensional stimulus-response compatibility effect: Manipulating the salience of stimulus and response sets*. Poster presented at the 13th annual convention of the American Psychological Society, Toronto, Ontario.
- Capaldi, E. J., & Proctor, R. W. (2001, April). *Evolution and justification of scientific methodologies*. Paper presented at the 93rd meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.
- Proctor, R. W., & Capaldi, E. J. (2001, April). *A naturalistic approach to methodology in psychological science*. Paper presented at the 93rd meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

Presented Papers and Posters (cont'd.)

- Proctor, R. W., Lien, M.-C., Schultz, E. E., & Salvendy, G. (2001, April). *Influence of password constraints on ease of use and user satisfaction*. Poster presented at the CERIAS Second Annual Research Symposium: A Multidisciplinary Approach to Information Assurance and Security, West Lafayette, IN.
- Lien, M.-C., Schweickert, R., & Proctor, R. W. (2000, November). *A reverse task switching effect in a dual task: Importance of response-response correspondence*. Poster presented at the 41st annual meeting of the Psychonomic Society, New Orleans, LA.
- Vu, K.-P. L., & Proctor, R. W. (2000, November). *The role of salience in two-dimensional spatial compatibility*. Paper presented at the 41st annual meeting of the Psychonomic Society, New Orleans, LA.
- Proctor, R. W., Schultz, E. E., Lien, M.-C., & Salvendy, G. (2000, August). *Human factors in information security methods*. Poster presented at the Meeting of the Human Factors and Ergonomics Society, San Diego, CA.
- Proctor, R. W., & Vu, K.-P. L. (2000, July). *Eliminating, magnifying, and reversing spatial compatibility effects with mixed location-relevant and irrelevant trials*. Invited research paper presented at Attention and Performance XIX, Kloster Irsee, Germany.
- Proctor, R. W., Lien, M.-C., Schultz, E. E., & Salvendy, G. (2000, April). *Usability issues in security-related tasks*. Poster presented at the CERIAS Annual Research Symposium: Advancing the State and Practice of Information Assurance and Security, West Lafayette, IN.
- Proctor, R. W., Cho, Y. S., & Black, C. D. (2000, March). *Distance learning: Teaching human factors through the use of video streaming and Web-based materials*. Teaching, Learning, and Technology Showcase, Purdue University, West Lafayette, IN.
- Cho, Y. S., & Proctor, R. W. (1999, November). *Influence of initiating action on the up-right/down-left reference*. Paper presented at the 40th Annual Meeting of the Psychonomic Society, Los Angeles, CA.
- Proctor, R. W., Schultz, E. E., Lien, M.-C., & Salvendy, G. (1999, November). *Psychological factors in information security methods*. Paper presented at the Society for Computers in Psychology, Los Angeles, CA.
- Vu, K.-P. L., Proctor, R. W., & Pick, D. F. (1999, June). *Vertical versus horizontal spatial compatibility: Left-right prevalence*. Paper presented at the North American Society for Psychology of Sport and Physical Activity 1999 Conference, Clearwater Beach, FL.
- Goel, M., Maciejewski, A. A., Balakrishnan, V., & Proctor, R. W. (1999, May). *Failure tolerant teleoperation of a kinematically redundant manipulator: An experimental study*. Paper presented at the IEEE International Conference on Robotics and Automation, Detroit, MI.
- Lien, M.-C., & Proctor, R. W. (1998, November). *Effects of irrelevant location information on dual-task performance*. Poster presented at the 38th Annual Meeting of the Psychonomic Society, Dallas, TX.
- Lu, C.-H., & Proctor, R. W. (1998, October). *Mapping effects for orthogonally oriented stimulus and response sets*. Poster presented at the 42nd Annual Meeting of the Human Factors Society, Chicago, IL. (Abstract published in the Proceedings)

Presented Papers and Posters (cont'd.)

- Proctor, R. W. (1998, May). *Postmodern contextualism: Psychology's savior or false prophet?* Featured lecture, Armadillo IX meeting of cognitive psychologists, Houston, TX.
- Proctor, R. W., & Pick, D. F. (1998, May). *Deconstructing Marilyn: Face contexts and stimulus-response compatibility.* Paper presented at Armadillo IX meeting of cognitive psychologists, Houston, TX.
- Lu, C.-H., & Proctor, R. W. (1998, March). *Ramifications of contemporary research on stimulus-response compatibility for design of human-machine interfaces.* Poster presented at the 3rd Automation Technology and Human Performance Conference, Norfolk, VA.
- Pick, D. F., & Proctor, R. W. (1998, March). *Age differences in the effects of irrelevant location information.* Poster presented at the 3rd Automation Technology and Human Performance Conference, Norfolk, VA.
- Proctor, R. W., Wang, D. Y., & Pick, D. F. (1997, November). *Evaluation of the SYNWORK1 multiple-task work environment.* Paper presented at the 27th Annual Meeting of the Society for Computers in Psychology, Philadelphia, PA.
- Marble, J. G., Proctor, R. W., & Epp, D. G. (1997, November). *Influence of location mapping on the Simon effect.* Poster presented at the 37th Annual Meeting of the Psychonomic Society, Philadelphia, PA.
- Lu., C.-H., & Proctor, R. W. (1997, March). *Contemporary research on stimulus-response compatibility: Implications for display-control design.* Paper presented at 1997 International Conference of Industry, Engineering, and Management Systems, Cocoa Beach, FL.
- Chen, B., Wang, H., Proctor, R. W., & Salvendy, G. (1996, October). *A human-centered approach for improving World-Wide Web browsers.* Paper presented at the 26th Annual Meeting of the Society for Computers in Psychology, Chicago, IL.
- Lu, C.-H., & Proctor, R. W. (1995, November). *Role of S-R association and relative timing on the Stroop effect.* Poster presented at 36th Annual Meeting of the Psychonomic Society, Los Angeles, CA.
- Proctor, R. W., & Lu, C.-H. (1995, November). *Influences of practice and transfer on the Simon effect.* Poster presented at 36th Annual Meeting of the Psychonomic Society, Los Angeles, CA.
- Proctor, R. W. (1995, October). *Keynote Address: Differentiating types of set-level stimulus-response compatibility.* Canadian Society for Psychomotor Learning and Sports Psychology. Vancouver, Canada.
- Proctor, R. W., & Wang, H. (1995, June). *Differentiating types of set-level compatibility.* Invited paper presented at Symposium on Theory of S-R Compatibility, Benediktbeuern, Germany.
- Proctor, R. W., & Dutta, A. (1995, May). *Evidence for two-stage models of S-R compatibility.* Paper presented at the 67th Annual Meeting of the Midwestern Psychological Association, Chicago, IL.
- Wang, H., & Proctor, R. W. (1995, May). *Set-level and element-level compatibility for different manual response sets.* Paper presented at the 67th Annual Meeting of the Midwestern Psychological Association, Chicago, IL.

Presented Papers and Posters (cont'd.)

- Proctor, R. W., Lu, C.-H., & Wang, H. (1994, December). *Activation of response codes to varying degrees by relevant and irrelevant stimulus information*. Paper presented at Koninklijke Nederlandse Akademie van Wetenschappen Symposium: Discrete versus Continuous Processing of Information. Amsterdam, the Netherlands.
- Schweickert, R. W., Dutta, A., Choi, S., & Proctor, R. W. (1994, December). *Predictions of acyclic task networks with discrete events: Multiple sources of information*. Paper presented at Koninklijke Nederlandse Akademie van Wetenschappen Symposium: Discrete versus Continuous Processing of Information. Amsterdam, the Netherlands.
- Wang, H., & Proctor, R. W. (1994, November). *Relation between set-level and element-level compatibility effects*. Poster presented at the 35th Annual Meeting of the Psychonomic Society, St. Louis, MO.
- Proctor, R. W., & Lu, C.-H. (1993, November). *The Simon effect: Location coding with respect or a referent?* Poster presented at the 34th Annual Meeting of the Psychonomic Society, Washington, DC.
- Stadler, M. A., & Proctor, R. W. (1993, November). *Attention and covariation in the Eriksen flanker task*. Poster presented at the 34th Annual Meeting of the Psychonomic Society, Washington, DC.
- Dutta, A., & Proctor, R. W. (1993, October). *The role of feedback in learning spatially incompatible stimulus-response assignments: Does it have one?* Paper presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA.
- Weeks, D. J., Beyak, B., Johnstone, R., & Proctor, R. W. (1993, June). *Evidence for relative spatial coding in orthogonal compatibility effects*. Poster presented at the Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity. Brainerd, MN.
- Proctor, R. W. (1993, May). *Panelist for a debate on mechanism and contextualism*. Panel discussion at the 19th Annual Convention of the Association for Behavior Analysis, Chicago, IL.
- Campbell, K. C., Proctor, R. W., Reeve, T. G., Weeks, D. J., & Dornier, L. (1993, April). *Orientalional correspondence of stimulus and response sets in choice reaction tasks*. Paper presented at the Midwestern Psychological Association Convention, Chicago, IL.
- Dutta, A., Proctor, R. W., Kelly, P. L., & Weeks, D. J. (1993, April). *Cross-modal compatibility effects with visuo-spatial and audio-verbal stimulus and response sets*. Paper presented at the Midwestern Psychological Association Convention, Chicago, IL.
- Lu, C.-H., & Proctor, R. W. (1993, April). *Does the similarity of irrelevant and relevant stimulus dimensions influence choice reactions?* Paper presented at the Midwestern Psychological Association Convention, Chicago, IL.
- Proctor, R. W., & Dutta, A. (1992, November). *What stimulus-response relations are learned in choice-reaction tasks?* Paper presented at the 33rd Annual Meeting of the Psychonomic Society, St. Louis, MO.
- Campbell, K. C., & Proctor, R. W. (1992, November). *Repetition effects with categorizable stimulus and response sets*. Poster presented at the 33rd Annual Meeting of the Psychonomic Society, St. Louis, MO.

Presented Papers and Posters (cont'd.)

- Weeks, D. J., & Proctor, R. W. (1992, November). *Orthogonal S-R compatibility: Influence of hand eccentricity*. Poster presented at the 33rd annual meeting of the Psychonomic Society, St. Louis, MO.
- Schweickert, R., Dutta, A., Choi, S., & Proctor, R. W. (1992, November). *Scheduling processes using working memory*. Paper presented at the 33rd annual meeting of the Psychonomic Society, St. Louis, MO.
- Proctor, R. W., & Dutta, A. (1992, June). *Effects of practice on response selection*. Paper presented in the symposium, "Alternative conceptions of skill," at the Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity, Pittsburgh, PA.
- Dutta, A., & Proctor, R. W. (1992, April). *Persistence of stimulus-response compatibility effects with extended practice*. Paper presented at the Midwestern Psychological Association Convention, Chicago, IL.
- Schweickert, R., Dutta, A., Choi, S., & Proctor, R. W. (1992, April). *Optimal execution order of mental processes*. Paper presented at the 33rd Joint National Meeting of the Institute of Management Science/Operations Research Society of America, Orlando, FL.
- Proctor, R. W., Van Zandt, T., Lu, C.-H., & Weeks, D. J. (1990, November). *S-R compatibility for destination of apparent motion: Catching affordances or directional coding?* Paper presented at the 31st annual meeting of the Psychonomic Society, New Orleans, LA.
- Proctor, R. W. (1990, October). *Toward a unified account of stimulus-response compatibility*. Paper presented for the panel, "A forty-year perspective on compatibility phenomena: A panel in honor of A. M. Small," at the 34th annual meeting of the Human Factors Society, Orlando, FL.
- Proctor, R. W., & Reeve, T. G. (1990, September). *The prevalence of salient-features coding in choice-reaction tasks*. Paper presented at the NATO Advanced Study Institute: Tutorials in Motor Neuroscience, Ajaccio, Corsica.
- Van Zandt, T., Colonius, H., & Proctor, R. W. (1990, August). *Accumulation of information in same-different matching*. Paper presented at the 23rd Annual Mathematical Psychology Meeting, Toronto, Ontario, Canada.
- Reeve, T. G., Proctor, R. W., Weeks, D. J., & Dornier, L. (1990, May). *Extended practice and transfer with spatial-precuing tasks*. Poster presented at the Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity, Houston, TX.
- Proctor, R. W. (1990, April). Discussant for the symposium, *Stimulus-response compatibility: Toward an integrated perspective*. Eastern Psychological Association Convention, Philadelphia, PA.
- Reeve, T. G., Proctor, R. W., & Weeks, D. J. (1989, November). *Transfer between orientations in spatial-precuing tasks*. Poster presented at the 30th annual meeting of the Psychonomic Society, Atlanta, GA.
- Proctor, R. W., Reeve, T. G., & Weeks, D. J. (1989, October). *Altering the salient visual features in a spatial-precuing task*. Poster presented at the 33rd annual meeting of the Human Factors Society, Denver, CO.

Presented Papers and Posters (cont'd.)

- Reeve, T. G., Proctor, R. W., & Weeks, D. J. (1989, June). *Retention of task-specific procedures in a spatial-precuing task*. Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Kent, OH.
- Weeks, D. J., Proctor, R. W., & Reeve, T. G. (1989, June). *Processes involved in translating between orthogonal stimulus and response dimensions*. Poster presented at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity, Kent, OH.
- Proctor, R. W., Reeve, T. G., & Weeks, D. J. (1988, November). *Choice-reaction tasks with symbolic stimuli: Practice and retention effects*. Paper presented at the 29th annual meeting of the Psychonomic Society, Chicago, IL.
- Reeve, T. G., Proctor, R. W., & Weeks, D. J. (1988, November). *Correspondence between stimulus and response locations in spatial-precuing tasks*. Paper presented at the 29th annual meeting of the Psychonomic Society, Chicago, IL.
- Proctor, R. W., & Reeve, T. G. (1988, August). *Correspondence of stimulus and response set orientations in spatial precuing tasks*. Poster presented at the annual convention of the American Psychological Association, Atlanta, GA.
- Proctor, R. W., & Weeks, D. J. (1988, March). *Response-stimulus interval effects in letter matching: Implications for the enhanced fast-"same" effect with successive presentation*. Paper presented at the 34th annual meeting of the Southeastern Psychological Association, New Orleans, LA.
- Proctor, R. W., & Weeks, D. J. (1987, August). *Instructional and probability manipulations of bias in multiletter matching*. Paper presented at the 20th Annual Mathematical Psychology Meeting, Berkeley, CA.
- Reeve, T. G., & Proctor, R. W. (1987, June). *Determinants of reaction-time patterns in two-choice tasks*. Poster presented at the Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity, Vancouver, British Columbia, Canada.
- Proctor, R. W., & Reeve, T. G. (1987, May). *The salient-features coding principle for choice-reaction tasks*. Paper presented in Symposium on Recent Advances in Experimental Cognitive Psychology, Rocky Mountain Psychological Association Convention, Albuquerque, NM.
- Proctor, R. W., & Reeve, T. G. (1986, November). *Practice effects in spatial precuing effects*. Paper presented at the 27th Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Reeve, T. G., & Proctor, R. W. (1986, November). *Coding operations in precuing tasks*. Paper presented at the Conference on Cognition and Motor Behavior, Louisiana State University, Baton Rouge, LA.
- Proctor, R. W., & Reeve, T. G. (1985, November). *Coding operations in spatial precuing tasks*. Paper presented at the 26th Annual Meeting of the Psychonomic Society, Boston, MA.
- Reeve, T. G., & Proctor, R. W. (1985, November). *Physical constraints imposed by finger placements in two-choice tasks*. Paper presented at the 26th Annual Meeting of the Psychonomic Society, Boston, MA.
- Reeve, T. G., & Proctor, R. W. (1985, May). *Practice effects and the advance preparation of discrete finger responses*. Poster presentation at the Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity, Gulf Park, MA.

Presented Papers and Posters (cont'd.)

- Proctor, R. W., & Reeve, T. G. (1984, November). *Can preparation procedures determine whether partial information activates responses?* Paper presented at the 25th Annual Meeting of the Psychonomic Society, San Antonio, TX.
- Reeve, T. G., & Proctor, R. W. (1984, July). *Fixed- and variable-order hypothesis in the preparation of discrete finger responses.* Poster presentation at the Olympic Scientific Congress, Eugene, OR.
- Reeve, T. G., & Proctor, R. W. (1984, May). *Discrete stage versus continuous flow models of information processing: Implications for motor behavior.* R. Tate McKenzie Symposium on Sport, Motor Behavior: An Integrated Perspective, Knoxville, TN.
- Reeve, T. G., Proctor, R. W., & McAlarney, J., III. (1984, February). *Microcomputer applications in perceptual-motor research.* Workshop presentation at the Southeast American College of Sports Medicine, Auburn, AL.
- Proctor, R. W., & Healy, A. F. (1983, November). *Order-relevant and order-irrelevant decision rules in multiletter matching.* Paper presented at the 24th Annual Meeting of the Psychonomic Society, San Diego, CA.
- Proctor, R. W., Rao, K. V., & Hurst, P. W. (1983, August). *An examination of response bias in multiletter matching: Implications for models of the comparison process.* Paper presented at the Sixteenth Annual Mathematical Psychology Meeting, Boulder, CO.
- Reeve, T. G., & Proctor, R. W. (1983). *Defining the role of verbal labels in motor short-term memory.* Paper presented at the Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity, East Lansing, MI.
- Proctor, R. W. (1979, November). *An analysis of reaction times in same-different matching tasks.* Paper presented at the 20th Annual Meeting of the Psychonomic Society, Phoenix, AZ.
- Proctor, R. W. (1978). *Activation and interference in the Stroop color-naming task.* Paper presented at the Southeastern Psychological Association Convention, Atlanta, GA.
- Proctor, R. W., & Proctor, J. D. (1978, November). *The role of probe-stimulus modality in secondary-task measures of attentional capacity.* Paper presented at the 19th Annual Meeting of the Psychonomic Society, San Antonio, TX.
- Proctor, R. W., & Fagnani, C. A. (1977). *Distractor-stimulus modality effects in the Brown-Peterson distractor task.* Paper presented at the Paper Fair, American Psychological Association Convention, San Francisco, CA.
- Proctor, R. W., & Ambler, B. A. (1975). *Effects of rehearsal strategy on memory and spacing and frequency.* Paper presented at the Southwestern Psychological Association Convention, Houston, TX.
- Proctor, R. W., & Fiscaro, S. A. (1975). *The role of limited capacity processing in the analysis of perceptual attributes.* Paper presented at the Southwestern Psychological Association Convention, Houston, TX.

Presented Papers and Posters (cont'd.)

Bernstein, I. H., & Proctor, R. W. (1974, November). *The role of criterion content in U-shaped masking functions for metacontrast*. Paper presented at the 15th Annual Meeting of the Psychonomic Society, Boston, MA.

Bernstein, I. H., Proctor, J. D., Proctor, R. W., & Schurman, D. L. (1973, May). *Metacontrast and brightness discrimination*. Paper presented at the Midwestern Psychological Association Convention.

Proctor, R. W. (1973). *Effects of association and repetition in memory for temporal order*. Paper presented at the Southwestern Psychological Association Convention, Dallas, TX.

Schurman, D. L., & Proctor, R. W. (1972, November). *Modality-specific short-term memory for pressure*. Paper presented at the 13th Annual Meeting of the Psychonomic Society, St. Louis, MO.