

CURRICULUM VITAE

January 2020

PERSONAL INFORMATION:

NAME: Anne Bibiana Sereno

PRESENT TITLES: Professor, Mathematical & Computational Cognitive Science, Cognitive Psychology, Cognitive Psychology, and Neuroscience and Behavior, Department of Psychological Sciences, College of Health and Human Sciences, Purdue University

Professor, Weldon School of Biomedical Engineering, College of Engineering, Purdue University

Area Director, Neuroscience and Behavior, Department of Psychological Sciences, Purdue University

Founder, Owner, and Manager, CogNeuro Solutions LLC

ADDRESS: Department of Psychological Sciences
703 Third Street
West Lafayette, Indiana 47907-2004

BIRTHDATE: December 6, 1961

CITIZENSHIP: U.S.

TRAINING:

UNDERGRADUATE EDUCATION: 1985, B.S., Biological Sciences, Northern Illinois University
1985, B.S., Mathematics, Northern Illinois University

GRADUATE TRAINING: 1991, A.M., Psychology, Harvard University
1991, Ph.D., Psychology, Harvard University

POSTGRADUATE TRAINING: 1991 - 1992, Post-doctoral Research Fellow, Psychiatry Department, Harvard Medical School
1992 - 1995, Post-doctoral Fellow, Division of Neuroscience, Baylor College of Medicine

ACADEMIC APPOINTMENTS:

1995 - 1999 Assistant Professor of Neuroscience, Center for Molecular and Behavioral Neuroscience, Rutgers University

1999 - 2004 Assistant Professor, Department of Neurobiology & Anatomy, McGovern Medical School, University of Texas Health Science Center at Houston

2000 - 2017 Member, Graduate School of Biomedical Sciences, University of Texas Health Science Center at Houston

2002 - 2004 Adjunct Assistant Professor, Department of Psychology, Rice University

2004 - 2011 Associate Professor, Department of Neurobiology & Anatomy, McGovern Medical School, University of Texas Health Science Center at Houston

2004 - 2011 Adjunct Associate Professor, Department of Psychology, Rice University

2011 - 2017 Professor, Department of Neurobiology & Anatomy, McGovern Medical School, University of Texas Health Science Center at Houston

2011 - 2017 Adjunct Professor, Department of Psychology, Rice University

2016 - 2017 Part Time Professor, School of Natural Sciences, Rice University

2018 - present Professor, Department of Psychological Sciences, College of Health and Human Sciences, Purdue University

2018 - present Professor, Weldon School of Biomedical Engineering, College of Engineering, Purdue University

2018 - present Director, Neuroscience and Behavior Area, Department of Psychological Sciences

PROFESSIONAL ORGANIZATIONS:

Organizer, MODVIS Workshop, *Computational and Mathematical Models in Vision*, 2015-present
 Member, Society for Neuroscience
 Member, Vision Sciences Society

HONORS AND AWARDS:

University Scholar (Northern Illinois University), 1980 - 1984
 W.C. Doherty Scholarship (national competition), 1980 - 1984
 Illinois Academic Scholarship, 1980 - 1984
 Orville Baker Prize for undergraduate writing, Northern Illinois University, 1981 and 1984
 Northern Illinois University Alumni Association Scholarship, 1984 - 1985
 Dean's Award, Department of Biological Sciences, Northern Illinois University, 1985
 Dean's Award, Honorable Mention, Department of Mathematical Sciences, Northern Illinois University, 1985
 Valedictorian (Student Marshall), College of Liberal Arts and Sciences, Northern Illinois University, 1985
 National Science Foundation Graduate Fellowship, 1985 - 1988
 Featured in *Profiles in Excellence*, National Science Foundation Publication, 1986
 Instructor, inaugural McDonnell Summer Institute, Memory and Vision, Cambridge, Massachusetts, 1988
 Stanley Scholar, 1989 - 1990
 Fellow, McDonnell Summer Institute, Attention and Emotion, Dartmouth, New Hampshire, 1991
 ARVO/NEI Travel Fellow Award Recipient, 1993
 NARSAD, Young Investigator Award, 1993 - 1995
 McDonnell-Pew Program in Cognitive Neuroscience, Research Grant, 1993 - 1995
 NIH NRSA, The Neurophysiology of Attention, 1993 - 1996
 Fellow, McDonnell Summer Institute, *The Cognitive Neurosciences*, 1st edition, Lake Tahoe, California, 1993
 Charles and Johanna Busch Biomedical Grants, 1996 - 1998
 NARSAD, Young Investigator Award, 1996 - 2001
 Rutgers Undergraduate Research Fellows Program Award, 1997 & 1999
 National Alliance for Autism Research (NAAR) Award, 2004-2007
 Nominated for the UTHSC John P. McGovern Award for Outstanding Teaching, 2005
 Named the Essel Investigator, National Alliance for Research in Schizophrenia and Depression, 2005
 NARSAD, Investigator-Initiated Award, 2005-2008
 Visiting Scholar, Wales Institute of Cognitive Neuroscience, 2008-2009
 Outstanding College Alumni Award for the College of Liberal Arts and Sciences, Northern Illinois University Alumni Association, 2009
 NIU News Release: <http://www.niu.edu/PubAffairs/RELEASES/2009/apr/serenos.shtml>;
Northern Now: http://www.niu.edu/Alumni/downloads/summer_09.pdf;
 Front page, *Chicago Tribune*, April 24, 2009:
http://articles.chicagotribune.com/2009-04-24/news/0904230870_1_phds-kids-chicago-area
 Reappointed to Graduate Faculty with highest commendation (less than 2% of faculty), 2010
 Chair of the UT Medical School Faculty Senate (Chair-Elect, Chair, Past-Chair), 2011 - 2014
 Presented with UT Medallion in recognition of accomplishments as Senate Chair, 2012 - 2013
 Faculty sponsor of PhD candidate, winner of UT Medical School Dean's Research Scholarship Award for distinction in biomedical research, 2014

Chair of the UTHealth Interfaculty Council (Chair-Elect, Chair, Past-Chair), 2014 - 2017
UTHealth Representative, UT System Faculty Advisory Council (Austin, TX), 2015 - 2017
Research highlighted, Front page story, *Chicago Tribune*, April 29, 2015:
<http://www.pressreader.com/usa/chicago-tribune/20150429>
Co-Chair, Health Affairs Committee, UT System Faculty Advisory Council (Austin, TX), 2016 - 2017
[Top 10 Concussion Research Articles of 2015](#), Defense and Veterans Brain Injury Center (DVBIC), Defense
Department's Center of Excellence for Traumatic Brain Injury

EDITORIAL POSITIONS:

Associate Editor: *Frontiers in Integrative Neuroscience*
Host Editor: *Frontiers Special Topic*, Representations of visual space in primates
Editorial Board: *Frontiers in Cognition*, 2010-present
Ad hoc Reviewer: *Behavioral and Brain Sciences, Biological Psychiatry, Brain Research, Cerebral Cortex, Dementia and Geriatric Cognitive Disorders, Experimental Brain Research, Frontiers in Computational Neuroscience, Journal of Clinical and Experimental Neuropsychology, Journal of Cognitive Neuroscience, Journal of Experimental Psychology: Human Perception and Performance, Journal of Experimental Psychology: Learning, Memory, and Cognition, Journal of Neurology, Journal of Neurophysiology, Journal of Neuropsychiatry, Neuropsychology, and Behavioral Neurology, Journal of Neuroscience, Learning & Memory, Nature, Nature Neuroscience, Neuron, Neuropharmacology, Perception & Psychophysics, Psychiatry Research, Schizophrenia Research, Science, Visual Neuroscience, Vision Research*

SERVICE ON INTERNATIONAL GRANT REVIEW PANELS:

Reviewer, The Wellcome Trust (London, England), Joint Infrastructure Fund, 2000

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

Reviewer, National Science Foundation, 1992
Reviewer, NIMH, Special Study Section, ZRG1 BBBP-5, September 2002
Evaluator, NIMH, B/START program, April 2003
Temporary Member, NIH, CVP (formerly VISB) Study Section, May 2003 - 2007
Evaluator, NIMH, B/START program, July 2003
Reviewer, NIH, BRLE (formerly BBBP-1) Study Section, October 2004
Temporary Member, NIH, CP (formerly BBBP-4) Study Section, June & October 2005
Reviewer, Vanderbilt University's Intramural Discovery Grant Program, January 2007
Reviewer, Autism Speaks, May 2007
Society for Neuroscience Committee on Animals in Research, Member, 2008-2011
Member, NSF Activation Grant Review Panel, April 2011
Temporary Member, NIH, CP Study Section, February 2013
Member, NSF Activation Grant Review Panel, October 2013
Temporary Member, NIH, CP Study Section, June 2014
Temporary Member, NIH, ZRG1 F02B-D Study Section, June 2015
Temporary Member, NIH, ZRG1 F02B-D Study Section, March 2016
Session Chair, MODVIS Workshop, Session: *Attention*; Session: *Eye-movements and Fixation*, May 2016
Session Chair, MODVIS Workshop, Session: *Neuroscience/Physiology*; Session: *Color, Lightness, and Methods* and Introduction of Keynote Speaker, May 2017
Session Chair, VSS, Session: *Attention: Selection and Modulation*; May 2017
Session Chair, Society for Neuroscience, Session: *Spatial and Feature-based Attention*; November 2017
Session Chair, MODVIS Workshop, Session: *Eye movements*; Session: *Three-dimensional objects*, May 2018
Member, NIH, CP Study Section, San Francisco, CA, February 2019 (declined)

Member, NIH, Sensory and Motor Neuroscience, Cognition and Perception Fellowship Study Section, San Diego, CA, March 2019 (declined)

SERVICE AT PURDUE UNIVERSITY:

Member, Primary Committee, Psychology, 2018 - present
Elected Member, Advisory Committee, Psychology, 2018 – present
Member, Graduate Committee, Weldon School of Biomedical Engineering, 2018 - present
Member, Mathematical and Computational Cognitive Science Area, 2018 - present
Member, Cognitive Psychology Area, 2018 – present
Director, Mathematical and Computational Cognitive Science Colloquium, 2018 - 2019
Member, Faculty Focus Groups, internal PIIN director search, 2018
Member, Women Faculty in Engineering Committee, College of Engineering, 2018 - present
Director, Neuroscience and Behavior Colloquium, 2019 - 2020
Chair, BME PhD Qualifying Procedures (PQP) Committee, 2019 – present
Faculty Review Committees:

Presenter, Primary Committee, Robert Phillips, 2018 - present
Presenter, Primary Committee, Ed Fox, 2018 - present
Presenter, Primary Committee, Yu-Chin Chiu, 2019 - present
Presenter, Primary Committee, Kim Kinzig, 2019 - present
Presenter, Primary Committee, Julia Chester, 2019 - present
Member, Counseling Committee, Bridgette Tonnsen, 2019
Presenter, Counseling Committee, Julia Chester, 2019

Graduate School Student Advisory Committees:

Member, Preliminary Defense Committee, Clinical, Psychology, Andrea Massa, 2018-19
Member, Qualifying Exam Committee, Mathematical & Computational, Psychology, Maria Kon, 2019
Member, Preliminary Exam Committee, Neuroscience & Behavior, Psychology, Liz Sahagun, 2019
Member, PhD Thesis Committee, Mathematical & Computational, Psychology, Xiaofang Zheng, 2019

SERVICE ON COMMITTEES AT OTHER INSTITUTIONS:

Harvard University:

Student member, Psychology Colloquium Committee, 1986 - 1987, 1987 - 1988
Co-coordinator, Graduate Student Organization, 1988 - 1989
Student Member, Committee on Higher Degrees, Psychology Department, 1988 - 1989, 1989 - 1990

Baylor College of Medicine:

Systems Neuroscience Journal Club Coordinator, Division of Neuroscience, 1993 – 1995

Graduate School Student Advisory Committees:

Member, Qualifying Exam Committees
Department of Neuroscience, Joonyeol Lee, 2005
Department of Molecular & Cellular Biology, Janagi Thirugnanasampanthan, 2006
Member, Thesis Advisory Committee (Department of Neuroscience),
Department of Neuroscience, Joonyeol Lee, 2005 - 2008

Rutgers University:

Nominating Committee for At-Large University Senators, 1995 - 1996
Committee for the Elizabeth H. Solomon Research Training Awards, 1996 - 1997, 1997 - 1998
Computer Committee, Center for Molecular and Behavioral Neuroscience, 1996 – 1997

Graduate School Student Advisory Committees:

Chair, Thesis Committee
Neuroscience, Kathleen Anderson, Ph.D., 1998

Outside Member, Thesis Committee
Psychology, Sheba Heptulla, Ph.D., 1999
Advisor, Thesis Committee
Neuroscience, Abigail Larrison Faucher, Ph.D., 2000

Rice University:

Graduate School Student Advisory Committees:

Member, Thesis Supervisory Committee
Department of Psychology, Rebecca Lundwall, 2011 - 2013

University of Texas (UT):

UT System Committees (Austin, TX):

UTHealth Representative, UT System Faculty Advisory Council, 2014 – 2017
Member, Governance Committee, UT System Faculty Advisory Council, 2015
Member, Health Affairs Committee, UT System Faculty Advisory Council, 2015 - 2017
Co-Chair, Health Affairs Committee, UT System Faculty Advisory Council, 2016 – 2017
Co-Chair, Poster Session, UT System Beyond Resiliency Training Conference, 2016 - 2017
Member, Steering Committee, UT System Beyond Resiliency Training Conference, 2016 – 2017

Houston, UT Health Science Center, and McGovern Medical School Committees:

Chemical Safety Committee, Member, 2003 - 2008; Chair, 2008-2009
Interviewer, Medical School Admissions, 2000 - 2005
Research Committee, 2003 - 2009
Participant, LCME Accreditation Site Visit, 2004
Member, UT/Rice Collaboration Committee, 2009 - 2013
Member, Committee on Committees, 2010
Member, Society for Neuroscience, Houston Chapter, Travel Awards Review Committee, June 2010
Member, Faculty Senate, 2010 - 2013
Chair, Faculty Senate (Chair-Elect, Chair, Past-Chair), 2011 - 2014
Member, Executive Committee, Faculty Senate, 2011 – 2014
Member, Administrative Council, 2011 - 2013
Member, Evaluation of Educators for Promotion and Tenure Subcommittee, Faculty Senate, 2011 – 2013
Member, Interfaculty Council, 2011 – 2017
Member, Research and Education Support and Compensation Subcommittee, Faculty Senate, 2012 – 2013
Member, HOOP Review Committee, 2012 – 2013
Co-Chair, Compensation Committee, 2012 -2013
Member, Dean's LCME Concerns Committee, 2012 – 2013
Member, Dean's Diversity Committee, 2012 – 2013
Member, Faculty Status, Rights, and Responsibilities Subcommittee, 2012 – 2013
Member, Diversity Subcommittee, Faculty Senate, 2012-2013
Co-Chair, Bylaws Subcommittee, Faculty Senate, 2012-2013
Member, Professionalism Subcommittee, Faculty Senate, 2012-2013
Member, Maternity Leave Subcommittee, Faculty Senate, 2012-2013
Chair, UT Regents Teaching Award MS Nominating Committee, 2012 - 2013
Chair, Committee on Committees (Chair-Elect, Chair, Past-Chair), 2013 - 2016
Ex-officio Member, MS Diversity Committee, 2013 - 2014
Chair, Faculty Status, Rights, and Responsibilities Subcommittee, 2013 – 2014
Member, Faculty Status, Rights, and Responsibilities Subcommittee, 2014 – 2015
Chair, Professionalism Committee of Senate, 2013 - 2014
Member, Evaluation of Clinical Educators Subcommittee of Senate, 2013 – 2014
Member, Faculty Development Leave Committee, 2014 – 2017
Ex officio Member, Faculty Senate, 2014 – 2015

Member, Faculty Senate, 2015 – 2017

Member, Faculty Senate Committee on Faculty Assistance, 2015 – 2017

Member, HOOP Review Committee, 2015 – 2016

Member, University Leadership Council, 2015 – 2016

Chair of the UTHealth Interfaculty Council (Chair-Elect, Chair, Past-Chair), 2014 – 2017

Member, Institutional Conflicts of Interest Committee, 2016 – 2017

Neuroscience Program and Departmental Committees:

Member, Neurobiology & Anatomy, Neuroscience Search Committee, 2001 - 2002

Member, Neurobiology & Anatomy, Computational Neuroscience Search Committee, 2001 - 2002

Member, Neurobiology & Anatomy, Brain Imaging Search Committee, 2004 - 2005

Director, Systems and Cognitive Neuroscience Tract, 2009 - 2017

Member, Neurobiology & Anatomy, Neuroscience Search Committee, 2014 - 2015

Member, Neurobiology & Anatomy, Neuroscience Search Committee, 2015 - 2016

Member, Colloquia Committee, 2015 – 2017

Graduate School Student Advisory Committees (76 total):

Chair, Advisory Committees, 7 committees, 2002 – 2018

Ashley Cain, Shelly Fontenot, Keith Kline, Ashley Hood, Cameron Jeter, Stuart Red, Randy Igbino

Chair, Supervisory Committees, 7 committees, 2003 - 2017

Ashley Cain, Keith Kline, Eugena Mitchell, Shelly Fontenot, Ashley Hood, Cameron Jeter, Stuart Red

Chair, Examining Committees, 1 Committees, 2012 - 2013

Deepna Devkar

Chair, Medical School Scholarly Concentration in Neuroscience, 1 Committee, 2015 - 2018

Randy Igbino

Member, Advisory Committees, 24 committees, 2002 - 2017

Mark Lickteig, Alyson Zeamer, Jason Runyan, Eugena Mitchell, Evelyn McClendon, Ashley Hood, Laura Sundberg, Keith Kline, Kristal Atkins, Tiana Purrington, Natalia Rozas, Antony Passaro, Sheshali Wanchoo, Joseph Alcorn, Sarah Baum, Deepna Thakkar, Nadeeka Dias, Eric Lin, George Edwards, Zachary Jones, Ariana Andrei, Uffaf Khan, Tara Fischer, Kiefer Forseth

Member, Supervisory Committees, 24 committees, 2001 - present

Sarah Nemanic, Eugena Mitchell, Christopher Machado, Dawn Marsh, Mark Lickteig, Jason Runyan, Alyson Zeamer, April Hebert, Sonja Blum, Fredy Reyes, Evelyn McClendon, Keith Kline, Kristal Atkins, Tiana Purrington, Bryan Hansen, Laruen Elmore, Sheshali Wanchoo, Antony Passaro, Natalia Rozas, Audrey Nath, Eric Lin, Deepna Devkar, Joseph Alcorn, George Edwards

Member, Examining Committees, 12 Committees, 2000 - 2017

Sarah Nemanic, Christopher Machado, Pamela Yang, Diana Lazzell, Joseph Cordella, Eugena Mitchell, Evelyn McClendon, Lauren Elmore, Natalia Rozas, Julia Hill, Antony Passaro, Nadeeka Dias

Other Educational Committees and Mentoring Activities:

Member, Neuroscience Program Admissions Subcommittee, 2002 - 2005, 2006 – 2008

Member, Graduate School of Biomedical Sciences, Curriculum Committee, 2005 – 2008

Member, Steering Committee for Medical School Scholarly Concentration in Neuroscience, 2009 - 12

Member, UT/Rice Collaboration Committee, 2009 - 2012

Member, Neuroanatomy Graduate Course Committee, 2010 – 2013

Other Mentoring Activities:

Summer Research Program, 35 students, 2000 - 2017

Undergraduate Supervised Research (e.g., NEUR485, NEUR310, CSCI390, HONS470, RUSP)

10 students, approximately 30 semesters, 2000 – 2017

McGovern Medical Students Supervised Research, 6 students, approximately 15 semesters, 2000 - 17

10 students, approximately 30 semesters, 2000 – 2017

Graduate Tutorial Research, 19 students, 2000 - 2017

Faculty, Grants 102 mentor

Dr. Timothy Ellmore, Neurosurgery Department, 2008-2009

Dr. Manuel Gonzalez-Garay, Center for Cardiovascular Genetics, Institute for Molecular Medicine, 2010-2011

Dr. Ines Moreno Gonzalez, Department of Neurology, 2013-2014

EDUCATION AND SERVICE TO THE COMMUNITY:

Public lecture for the National Alliance for Research on Schizophrenia and Depression (NARSAD), Decade of the Brain, Houston, September 1993.

Public lecture for the National Alliance for Research on Schizophrenia and Depression (NARSAD), Scientific Symposium, Drake Hotel, Chicago, September 1994.

Silverlake Elementary School, Pearland, TX- organized and participated in demonstrations

Fall 2001- Alphabet Art

Fall 2001- Demonstration of a Medieval Trebuchet

Spring 2002- Career Paths (Ph.D., Digging up Dinosaurs)

Spring 2003- SuperCroc

Member, Board of Directors, *Do Re Mi Fa Soft*, a company using an innovative piano teaching method devoted to teaching any child as young as 2 years old to read music and play the piano, 2003 - 2005.

Public lecture and demonstration for “Brain Night” at the John P. McGovern Museum of Health and Medical Science, Houston, Texas. The Stroop Effect and Attentional Control, March 24, 2005.

Public lecture and demonstration for “Brain Night” at the John P. McGovern Museum of Health and Medical Science, Houston, Texas. Attention and Attentional Deficits, March 20, 2007.

Pearland Junior High South, Pearland, TX- Gave multiple presentations on Neurotechnology to 7th and 8th grade Future Problem Solver classes, February 4, 2008.

Public lecture and demonstration for “Brain Night” at the John P. McGovern Museum of Health and Medical Science, Houston, Texas. Perception, Cognition, and the Brain. March 20, 2008.

Lecture and demonstrations for the McGovern Museum of Health and Medical Science “Partners in Education” program for Houston area elementary school educators, June 12, 2008.

Lecture and designed demonstrations for National Youth Leadership Forum on Behavioral Neuroscience for high school students, July 24, 2008.

Public Lecture, Bangor, Wales, United Kingdom, sponsored and hosted by the Wales Institute of Cognitive Neuroscience, “Eye movements and human disease,” July 30, 2009.

Lunch and Learn Special Event, “Short-term memory and attention...where would we be without them,” Institute of Molecular Medicine, August 25, 2009.

Capitol Hill Day, Society for Neuroscience Committee on Animals in Research, Washington D.C, March 2009.

15th Annual UT Public Forum for Brain Awareness Week, Childhood Brain Diseases, February 6, 2010.

Brain Awareness Week Lecture Series, “Mechanisms of Attention and Memory,” Rice University, March 19, 2011.

22nd Annual UT Public Forum for Brain Awareness Week, Autism Spectrum Disorders in the Age of DSM-5, Cooley Life Center, March 25, 2017.

Mentorship of high school students research

2011-Katrina Wen; 2011-2013-Marsha Zhang; 2012-2013-Jiahao Chen; 2012-Annie Zhang; 2013-Carlos Armstrong; 2013-2014-Sneha Vermer; 2013-2014-Radhika Balagopal; 2016-Ayala Porat

SPONSORSHIP AND TRAINING OF CANDIDATES FOR POSTGRADUATE DEGREE:

Abigail Larrison Faucher, 1996 - 2000, Ph.D.

Ashley Cain, 2001 - 2003, M.S.

Keith Kline, 2002 - 2004, M.S. in 2006

Eugena Pixley Mitchell, 2004 - 2007, Ph.D.

Vaibhav Juneja, 2005 - 2006, transferred programs
Shelly Babin Fontenot, 2002 - 2009, Ph.D.
Ashley Jagar Hood, 2004 - 2009, Ph.D.
Cameron Jeter, 2005 - 2010, Ph.D.
Stuart Red, 2010 - 2014, Ph.D.
Randy Igbino, 2015 - 2019, M.D., with Scholarly Concentration in Neuroscience
Daniel Larranaga, 2019 - present, Neuroscience & Behavior, Ph.D.
Zhixian Han, 2019 - present, Mathematical and Computational Science, Ph.D.
Aditya Shanghavi, 2019 - present, Biomedical Engineering, M.S.

SPONSORSHIP AND TRAINING OF POSTDOCTORAL FELLOWS, RESEARCH SCIENTISTS, AND RESEARCH ASSISTANT PROFESSORS:

Kevin Briand, Ph.D., 1996 - 2002
Wei Lu, Ph.D., 1998 - 1999
Shamima Khatoon, M.D., 1999
Silvia Amador-Garza, M.D., 2001 - 2005
Sidney L. Lehky, Ph.D., 2005 - 2008
Xinmiao Peng, Ph.D., 2006 - 2008
Saumil Patel, Ph.D., 2006 - 2011
Eliana Klier, Ph.D., 2016 - 2017
Farzin Shamloo, Ph.D., 2019 - present

CURRENT TEACHING RESPONSIBILITIES:

Fall 2018:
PSY-69200, 7 students
Spring 2019:
PSY-69200, 6 students
Fall 2019:
PSY-69600, 13 students

PAST TEACHING RESPONSIBILITIES:

Memory and Vision, Harvard University, McDonnell-Pew Summer Institute in Cognitive Neuroscience
Laboratory Teaching Assistant, Summer 1988
Foundations of Neuroscience, Rutgers University, Center for Molecular and Behavioral Neuroscience
Faculty Instructor
Fall 1995, Spring 1996, Spring 1997, Spring 1998, Spring 1999
Research in Neuroscience, Rutgers University, Center for Molecular and Behavioral Neuroscience
Research Supervisor, 1996 - 2000, 1-2 students per semester
Neuroscience Methods, Rutgers University, Center for Molecular and Behavioral Neuroscience
Faculty Instructor, 1996 - 1998
Research in Psychology, Rutgers University, Psychology Department
Research Supervisor, 1997
Higher Brain Functions, Rutgers University, Center for Molecular and Behavioral Neuroscience
Course Creator and Course Director (new freshman undergraduate course), 1997
Brain Mechanisms of Complex Behaviors, Rutgers University, Center for Molecular and Behavioral Neuroscience
Course Creator and Course Director (new graduate course), 1997 - 1999
Critical Thinking, Rutgers University, Center for Molecular and Behavioral Neuroscience
Faculty Instructor and Written Paper Reviewer, 1997
Neuroscience Study, Rutgers University, Center for Molecular and Behavioral Neuroscience

Research Supervisor, 1997 - 1999
Rutgers Undergraduate Research Fellows Program, Across all 3 campuses of Rutgers University
Research Supervisor, 1997 – 2000, 2 fellows
Department Proseminar, Rutgers University, Psychology Department
Faculty Instructor, Fall 1998
Senior Honors Project, Rutgers University, Biology
Course Director, 1998 - 1999
Internship-For-Credit, Franklin & Marshall College
Supervised Research Director, 1999
Applied CogNeuro Lab (Rice NEUR 364/564)
 2016 – 2017: *Course Creator and Course Director*
Research Tutorial, Graduate School of Biomedical Sciences, The University of Texas - Houston
 2000 - 2017: *Research Director and Supervisor, 19 graduate students*
Summer Research Program, The University of Texas Medical School at Houston
 2000 - 2017: *Research Director and Supervisor, over 35 undergraduate or medical students*
Rice University, Advisor for Supervised Research (e.g., NEUR 485, NEUR 310)
 2002 - 2017: *Research Director and Supervisor, 10 undergraduate students (currently 4)*
Intermediate Cognitive Neuroscience (GS140012/ GS140173 after 2011), The University of Texas Graduate School at Houston; required Neuroscience Program first year course (also Rice Psychology required course)
 2010 – 2016: *Course Creator and Course Director*
Gross Anatomy (GS120055), UTHealth
 2001- 2015: *Faculty Instructor, set-up, proctor, and grade exams*
Rice University, Advisor for Honors Thesis, Undergraduate Scholars Program (HONS470 & HONS471)
 2002 - 2017: *Research Director and Supervisor, 2 undergraduate students*
Theory, Content, and Execution in Cognitive Neuroscience I, II, III (GS140014/ GS140022 after 2011), UTHealth
 2008-2013: *Course Creator and Course Director (or co-Course Director)*
Advanced Cognitive Neuroscience I (GS140023), UTHealth; required Systems and Cognitive Neuroscience Tract course at UT and Rice University
 2006 – 2013: *Course Creator and Course Director*
Topics in Molecular Medicine (GS211611), UTHealth
Instructor, Fall 2013 (35 MD/PhD students, 3 lecture hours)
Advanced Seminar in Learning and Memory (GS1400311), UTHealth
Co-Course Director, Fall 2010
Systems Neuroscience (GS140113), UTHealth
Faculty Instructor, Spring
 2000 (5 students, 3 lecture hours); 2001 (3 students, 3 lecture hours); 2002 (4 students, 3 lecture hours); 2003 (6 students, 3 lecture hours); 2004 (2 students, 3 lecture hours); 2008 (6 students; 4.5 lecture hours); 2009 (3 students, 6 lecture hours);
 Lecture topics including Eye movements; Attention; Attentional Disorders; Visual system; Parietal cortex and the dorsal stream, Visual system: Temporal cortex and the ventral stream; Cellular recording; Coordinate systems of the brain; Persistent neural activity
Experimental Analysis of Behavior (GS140043), UTHealth
Faculty Instructor, Summer
 2008 (5 students, 39 lecture hours); 2009 (1 student, 9 lecture hours);
Neurobiology of Disease (GS140021), UTHealth
Faculty Instructor, Fall
 2003 (5 students, 1 lecture hour); 2009 (7 students, 1 lecture hour); 2012 (1 lecture hour)
 Topics: Impulsivity and Attention; Attentional Deficits
Current Topics in Neuroscience (GS140611), UTHealth
Faculty Instructor, Fall, 1.5 lecture hours

1999 (8 students); 2000 (5 students); 2001 (12 students) ; 2002 (5 students); 2003 (5 students); 2004 (10 students); 2005 (7 students); 2007 (7 students)

Gross Anatomy Laboratory (GS120055), UTHealth

Faculty Instructor in Head and Neck Labs, Fall, 33 hours; Also attend associated lectures (23 hours), prepare faculty prosections (33 hours), proctor exams (12 hours), and set-up and grade exams 2001 (204 students); 2002 (206 students); 2003 (208 students); 2004 (207 students); 2005 (209 students)

Seminars in Neuroscience (GS140041), UTHealth

Faculty Instructor, Summer, 2008 (3 students, 1.5 lecture hours)

Methods in Cognitive Neuroscience, Rice University

Faculty Instructor, Department of Psychology, graduate course, Spring 2003, 2004

Research Methods, Rice University

Faculty Instructor, Department of Psychology, undergraduate course, Fall 2003

Integrative Neuroscience II, Baylor College of Medicine

Faculty Instructor, Division of Neuroscience, graduate course, Spring 2005

Career Development II, The University of Texas Health Science Center at Houston

Faculty Instructor, Spring 2008; Topics: CV Training

CURRENT GRANT SUPPORT, AWARDS, AND CONTRACTS:

1. Big Idea Challenge 2.0
P.I. Tonnsen; Co-P.I. **Sereno** 07/01/19 – 06/30/21
From cell cultures to community cultures: Bringing precision health to autism
\$333,100 + >\$200,000 in cost-shares from colleges and faculty

PENDING GRANT SUPPORT, AWARDS, AND CONTRACTS:

1. Advanced Detection Technologies Initiative
M.P.I. Bharadwaj; **Sereno**; Lee 07/01/20 – 06/30/21
Development of wearable biosensing eyetracker for tracking executive function
\$15,000

PAST YEAR, SUBMITTED GRANT SUPPORT, AWARDS, AND CONTRACTS:

1. NSF, unfunded
P.I. Z. Liu; Co-P.I. **Sereno** 10/1/19 – 9/30/22
Integrative strategies for understanding neural and cognitive systems
\$891,570
2. Indiana CTSI Postdoctoral Fellowship, unfunded
P.I. **Sereno**; Shamloo (postdoc) 2 years
Effect of subconcussive head-impacts on sensorimotor and cognitive performance

PAST GRANT SUPPORT, AWARDS, AND CONTRACTS:

1. NIH-NRSA, postdoctoral training grant
P.I. **Sereno** 1993 - 1995
The neurophysiology of attention
2. NARSAD, Young Investigator Award
P.I. **Sereno** 1993 - 1995
Mechanisms of attention and memory
\$60,000
3. McDonnell-Pew Program in Cognitive Neuroscience, Research Grant
P.I. **Sereno** 1993 - 1995

- The neurophysiology of attention
\$60,000
4. Charles and Johanna Busch Biomedical Grants
P.I. **Sereno** 1996 - 1998
Primate physiology
\$20,000
 5. NARSAD, Young Investigator Award
P.I. **Sereno** 1996 - 2001 (with extension)
The Mechanisms of attention and memory
\$60,000
 6. Rutgers Undergraduate Research Fellows Program Award
P.I. **Sereno** 1997 - 1998
Antisaccade and saccadic eye movement in Parkinson's disease
\$1,500
 7. Scottish Rite Schizophrenia Research Program, Co-PI
Co-P.I. **Sereno** 1997 - 1999
Inhibitory Attention Mechanisms in Schizophrenia
\$60,000
 8. Rutgers Undergraduate Research Fellows Program Award
P.I. **Sereno** 1999 - 2000
Sensory and motor components of inhibition of return
\$1,500
 9. James S. McDonnell Program in Cognitive Neuroscience, Investigator-Initiated Grant
P.I. **Sereno** 1996 - 2003 (with extension)
The Neurophysiology of Short-Term Memory
\$105,000
 10. NIH NRSA 5 F31 MH066550
P.I. Pixley (Sponsor: **Sereno**) 2002- 2005
Neural basis of emotion and social behavior
 11. NIH R01 MH63340-01
P.I. **Sereno** 2001 - 2007
The Neurophysiology of Shape and Spatial Working Memory
\$1,191,303
 12. NIH R01 MH63340-06 Supplement
P.I. **Sereno** 2002 - 2008
\$209,666
 13. NIH R01 MH65492
P.I. **Sereno** 2002 - 2007
Neural Substrates of Attention and Orienting
\$1,393,871
 14. National Alliance for Autism Research
P.I. **Sereno** 2004 - 2007
The neurobiology of social visual pursuit: Implications for autism
\$120,000
 15. National Alliance for Research in Schizophrenia and Depression (NARSAD)
The Essel Investigator (Independent Investigator Award)
P.I. **Sereno** 2005-2007
Effects of dopaminergic medications on orienting in schizophrenia
\$100,000
 16. City Federation of Women's Clubs Endowed Scholarship in the Biomedical Sciences, UT GSBS

- P.I. Jeter (Sponsor: **Sereno**) 2007
Development of reflexive and voluntary orienting in Tourette Syndrome
17. NIH CTSA T32 UL1 RR024148
P.I. Hood (Sponsor: **Sereno**) 2007 - 2009
The effect of deep brain stimulation on attention in Parkinson disease
18. Society for Neuroscience Graduate Student Travel Award
P.I. Hood (Sponsor: **Sereno**) November 2007
Exogenous covert orienting of attention in Parkinson's disease
19. Society for Neuroscience Committee on Women in Neuroscience Travel Award
P.I. Jeter (Sponsor: **Sereno**) November 2008
Development of a sensitive and reliable saccadic spatial working memory task
20. NIH 5T32 EY007024-28
P.I. Fontenot (Sponsor: **Sereno**) 2008 - 2009
The effect of dopaminergic medications on eye movements in schizophrenia
21. PEO National Scholar Award
P.I. Jeter (Sponsor: **Sereno**) 2008 - 2009
Voluntary and reflexive eye movements in Tourette Syndrome
22. NIH CTSA T32 UL1 RR024148
P.I. Jeter (Sponsor: **Sereno**) 2008 - 2010
Reflexive and voluntary eye movements in Tourette Syndrome
23. Worsham Endowed Scholarship
P.I. Jeter (Sponsor: **Sereno**) 2009
Reflexive and voluntary orienting in Tourette Syndrome
24. Society for Neuroscience Graduate Student Travel Award
P.I. Jeter (Sponsor: **Sereno**) November 2009
Saccadic measures of inhibitory control and working memory
25. NIH R01 NS052313 (P.I.: Nobuhide Kobori)
Co-investigator **Sereno** (5%) 4/1/06 - 3/31/11
Norepinephrine and TBI-associated prefrontal dysfunction
26. UT Graduate Program Initiative Fellowship in Theoretical and Computational Neuroscience
Sponsor: **Sereno** 2012 - 2014
\$26,000 stipend; tuition per year
27. NSF 092 4636
P.I. **Sereno** 9/1/09 - 8/31/13 (NCE)
Neurophysiological constraints and model of reflexive spatial attention
\$257,471
28. Zilkha Family Discovery Fellowship in Neuroengineering (Red)
Sponsor: **Sereno** 3/1/12 - 1/15/15
Neurophysiological constraints and modeling of attention
\$26,000/year
29. Rice MOU contract (for salary) 09/01/2015 – 08/31/2016
Sereno
NEUR 364/564
\$25,000
30. Mission Connect
P.I. **Sereno** 1/15/15 – 1/14/17
Development of behavioral biomarker of acute concussion for predictors of post-concussion symptoms
\$60,000
31. UT-Rice MOU contract (for salary) 09/01/2016 – 12/31/2017
Sereno

NEUR 364/564
\$45,000

32. Catalyst Award, Pilot Award
P.I. **Sereno**

9/1/16 – 9/1/18

Eye movements as potential biomarkers for early differentiation of Parkinson's disease (PD) and atypical Parkinsonisms (AP)
\$44,650

A. Refereed Original Articles in Journals:

1. **Sereno, A.B.** Searching for a neurophysiological view of ERP components. Commentary on R. Näätänen, The role of attention in auditory information processing as revealed by event-related potentials and other brain measures of cognitive function. *Behavioral and Brain Sciences*, 13(2): 253-254, 1990.
2. **Sereno, A.B.**, and Kosslyn, S.M. Discrimination within and between hemifields: A new constraint on theories of attention. *Neuropsychologia*. 29(7):659-675, 1991.
3. **Sereno, A.B.**, and Holzman, P.S. Express saccades and smooth pursuit eye movement function in schizophrenic, affective disorder, and normal subjects. *Journal of Cognitive Neuroscience*, 5:303-316, 1993.
4. **Sereno, A.B.**, and Holzman, P.S. Antisaccades and smooth pursuit eye movements in schizophrenia. *Biological Psychiatry*. 37:394-401, 1995.
5. **Sereno, A.B.**, and Holzman, P.S. Spatial selective attention in schizophrenic, affective disorder, and normal subjects. *Schizophrenia Research*. 20:33-50, 1996.
6. **Sereno, A.B.**, and Maunsell, J.H.R. Shape selectivities in primate lateral intraparietal cortex. *Nature*. 395:500-503, 1998.
7. Larrison, A.L., Briand, K.A., and **Sereno, A.B.** Nicotine, caffeine, alcohol, and schizotypy. *Personality and Individual Differences*, 27:101-108, 1999.
8. Briand, K., Strallow, D., Hening, W., Poizner, H., and **Sereno, A.B.** Control of voluntary and reflexive saccades in Parkinson's disease. *Experimental Brain Research*, 129:38-48, 1999.
9. Larrison, A.L., Ferrante, C.F., Briand, K.A., and **Sereno, A.B.** Schizotypal traits, attention and eye movements. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, 24:357-372, 2000.
10. Briand, K.A., Larrison, A.L., and **Sereno, A.B.** Inhibition of return in manual and saccadic response systems. *Perception & Psychophysics*, 62:1512-1524, 2000.
11. Briand, K.A., Hening, W., Poizner, H., and **Sereno, A.B.** Automatic orienting of visuospatial attention in Parkinson's disease. *Neuropsychologia*, 39:1240-1249, 2001.
12. Larrison-Faucher, A., Briand, K.A., and **Sereno, A.B.** Delayed onset of inhibition of return in schizophrenia. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, 26:505-512, 2002.
13. Khatoun, S., Briand, K.A., and **Sereno, A.B.** The role of response in spatial attention: Direct versus indirect stimulus-response mappings. *Vision Research*, 42: 2693-2708, 2002.
14. Sereno, S.C., O'Donnell, P.J., and **Sereno, A.B.** Neural plausibility and validation may not be so E-Z. Commentary on Reichle, Rayner, and Pollatsek, The E-Z reader model of eye movement control in reading: Comparisons to other models. *Behavioral and Brain Sciences*, 26(4): 502-503, 2003.
15. Seidlits, S., Reza, T., Briand, K.A., and **Sereno, A.B.** Voluntary spatial attention has different effects on voluntary and reflexive saccades. *TheScientificWorldJOURNAL*, 3: 881-902, 2003.
16. Larrison-Faucher, A.L., Matorin, A.A., and **Sereno, A.B.** Nicotine Reduces Antisaccade Errors in Task Impaired Schizophrenic Subjects. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, 28: 505-516, 2004.
17. Larrison, A.L., Briand, K.A., and **Sereno, A.B.** Nicotine Improves Antisaccade Task Performance Without Affecting Prosaccades, *Human Psychopharmacology: Clinical & Experimental*, 19: 1-11, 2004.
18. **Sereno, A.B.** Briand, K.A., Amador, S.C., and Szapiel, S.V. Disruption of reflexive attention and eye movements in an individual with a collicular lesion, *Journal of Clinical and Experimental Neuropsychology*, 28: 145-166, 2006.

19. Amador, S.C., Hood, A.J., Schiess, M.C., Izor, R., and **Sereno, A.B.** Dissociating cognitive deficits involved in voluntary eye movement dysfunctions in Parkinson's disease patients, *Neuropsychologia*, 44: 1475-1482, 2006.
20. **Sereno, A.B.** and Amador, S.C. Attention and memory related responses of neurons in the lateral intraparietal area during spatial and shape delayed match-to-sample tasks, *Journal of Neurophysiology*, 95: 1078-1098, 2006.
21. **Sereno, A.B.**, Jeter, C.B., Pariyadath, V., and Briand, K.A. Dissociating sensory and motor components of inhibition of return, *TheScientificWorldJOURNAL*, 6, 862-887, 2006.
22. Babin, S.L., Wassef, A.A., and **Sereno, A.B.** Schizophrenic patients exhibit hyper-reflexivity and lack voluntary priming in a semantic categorical priming task, *Journal of Neurolinguistics*, 20: 197-220, 2007.
23. Hood, A.J., Amador, S.C., Cain, A.C., Briand, K.A., Al-Refai, A.H., Schiess, M.C., and **Sereno, A.B.** Levodopa slows prosaccades and improves antisaccades: An eye movement study in Parkinson's disease. *Journal of Neurology, Neurosurgery and Psychiatry*, 78:565-570, 2007.
24. Lehky, S.R. and **Sereno, A.B.** A comparison of shape encoding in primate dorsal and ventral visual pathways, *Journal of Neurophysiology*, 97: 307-319, 2007.
25. Peng, X., Sereno, M.E., Silva, A.K., Lehky, S.R., and **Sereno, A.B.** Shape selectivity in primate frontal eye field, *Journal of Neurophysiology*, 100: 796-814, 2008.
26. Lehky, S.R., Peng, X., McAdams, C., and **Sereno, A.B.** Spatial modulation of primate inferotemporal responses by eye position, *PLoS ONE*, 3(10): e3492, 2008.
27. **Sereno, A.B.**, Babin, S.L., Hood, A.J., and Jeter, C.B. Executive functions: Eye movements and neuropsychiatric disorders. In L.R. Squire (ed.), *Encyclopedia of Neuroscience, volume 4*, pp. 117-122. Oxford: Academic Press, 2009.
28. Patel, S.S., Peng, X., and **Sereno, A.B.** Shape effects on reflexive spatial selective attention and a plausible neurophysiological model, *Vision Research*, 50: 1235-1248, 2010.
29. Hill, J.L., Patel, S.S., Gu, X., Seyedali, N., Bachevalier, J., and **Sereno, A.B.** Social orienting: reflexive versus voluntary control, *Vision Research*, 50: 2080-2092, 2010.
30. Levy, D.L., **Sereno, A.B.**, Gooding, D.C., and O'Driscoll, G.A. Eye tracking dysfunction in schizophrenia: characterization and pathophysiology. In N. Swerdlow (ed.), *Current Topics in Behavioral Neuroscience: Behavioral neurobiology of schizophrenia and its treatments*, 4:311-347, 2010.
31. **Sereno, A.B.** and Lehky, S.R. Population coding of visual space: Comparison of spatial representations in dorsal and ventral pathways, *Frontiers in Computational Neuroscience*, 4: 159, 2011.
32. Lehky S.R. and **Sereno, A.B.** Population coding of visual space: Modeling, *Frontiers in Computational Neuroscience*, 4:155, 2011.
33. Jeter, C.B. , Patel, S.S., and **Sereno, A.B.** Novel n-back spatial working memory task using eye movement response, *Behavior Research Methods*, 43(3):879-87, 2011.
34. Babin, S.L., Hood, A.J., Wassef, A.A., Williams, N.G., Patel, S.S., and **Sereno, A.B.** Effects of haloperidol on cognition in schizophrenia patients depend on baseline performance: a saccadic eye movement study, *Progress in Neuropsychopharmacology and Biological Psychiatry*, 35:1753-64, 2011.
35. Larrison, A.L., Babin, S.L., Xing, Y., Patel, S.S., Wassef, A.A., and **Sereno, A.B.** Effects of adjunct valproic acid on clinical symptoms and saccadic eye movements in schizophrenia, *Human Psychopharmacology*, 26:517-525, 2011.
36. Patel, S.S., Jankovic, J., Hood, A.J., Jeter, C.B., and **Sereno, A.B.** Reflexive and volitional saccades: Biomarkers of Huntington disease severity and progression, *Journal of the Neurological Sciences*, 313:35-41, 2012.
37. Red, S.D., Patel, S.S. and **Sereno, A.B.** Shape effects on reflexive spatial attention are driven by the dorsal stream, *Vision Research*, 55: 32-40, 2012.
38. Zhang, M.R., Red, S.D., Lin, A.H., Patel, S.S., and **Sereno, A.B.** Evidence of cognitive dysfunction after soccer playing with ball heading using a novel tablet-based approach, *PLoS ONE*, 8(2): e57364, 2013. doi:10.1371/journal.pone.0057364.
39. Lehky, S.R., **Sereno, A.B.**, and Sereno, M.E. Monkeys in space: Primate neural data suggest volumetric representations, *Behavioral and Brain Sciences*, 36:555-556, 2013. doi:10.1017/S0140525X13000447.

40. Lehky, S.R., Sereno, M.E., and **Sereno, A.B.** Population coding and the labeling problem: Extrinsic versus intrinsic representations, *Neural Computation*, 25:2235-64, 2013. Article highlighted with cover art.
41. **Sereno, A.B.**, Sereno, M.E., and Lehky, S.R. Recovering stimulus locations using populations of eye-position modulated neurons in dorsal and ventral visual streams of non-human primates, *Frontiers in Integrative Neuroscience*, 8:28, 2014. doi:10.3389/fnint.2014.00028
42. Jeter, C., Patel, S., Morris, J., Chuang, A., Butler, I., **Sereno, A.B.** Oculomotor executive function abnormalities with increased tic severity in Tourette Syndrome, *Journal of Child Psychology and Psychiatry*, 56:193-202, 2015.
43. Dias, N.R., Schmitz, J.M., Rathnayaka, N., Red, S.D., **Sereno, A.B.**, Moeller, F.G., and Lane, S.D. Anti-saccade error rates as a measure of attentional bias in cocaine dependent subjects, *Behavioural Brain Research*, 292:493-499, 2015.
44. Fischer, T.D., Red, S.D., Chuang, A.Z., Jones, E.B., McCarthy, J.J., Patel, S.S., and **Sereno, A.B.** Detection of mild traumatic brain injury using a novel tablet-based task, *Journal of Neurotrauma*, 33(13), 1237-46, 2016.
45. Patel, S.S., Red, S., Lin, E., and **Sereno, A.B.** Single canonical model of reflexive memory and spatial attention, *Scientific Reports*, 5:15604, 2015.
46. Kirchgessner, M.A., Chuang, A.Z., Patel, S.S., and **Sereno, A.B.** Intact reflexive but deficient voluntary social orienting in autism spectrum disorder, *Frontiers in Neuroscience*, 9:453, 2015.
47. Lehky, S.R., Sereno, M.E., and **Sereno, A.B.** Characteristics of eye-position gain field populations determine geometry of visual space, *Frontiers in Integrative Neuroscience*, Jan 20; 9:72, 2016.
48. **Sereno AB**, Patel SS, Shrestha Y, Red SD. Touch Sensitive System and Method for Cognitive and Behavioral Testing and Evaluation. *U. S. Patent No. 9,717,459(B2)*. Washington, DC: U.S. Patent and Trademark Office, August 1, 2017.
49. Koerte I.K., Nichols, E., Tripodis Y., Schultz V., Lehner S., Igbino R., Chuang A.Z., Mayinger M., Klier E.M., Muehlmann M., Kaufmann D., LePage C., Heinen F., Schulte-Korne G., Zafonte R., Shenton M.E., **Sereno AB**. Impaired cognitive performance in youth athletes exposed to repetitive head impacts, *Journal of Neurotrauma*, 34(16), 2389-2395, 2017.
50. Williams G.W., Shankar B., Klier E.M., Chuang A.Z., Marjiya-Villarreal S., Nwokolo O., Sharma A., **Sereno A.B.** Sensorimotor and executive function slowing in anesthesiology residents after overnight shifts, *Journal of Clinical Anesthesia*, 40, 110-116, 2017.
51. Brooks S.H., Klier E.M., Red S.D., Mehta N.D., Patel S.S., Chuang A.Z., Suescun J., Schiess M., **Sereno A.B.** Slowed prosaccades and increased antisaccade errors as a potential behavioral biomarker of Multiple System Atrophy, *Frontiers in Neurology*, 8:261, 2017. doi:10.3389/fneur.2017.00261
52. **Sereno, A.B.**, and Bolding, M.S. Executive functions: Eye Movements and Human Neurological Disorders, *Neuroscience and Biobehavioral Psychology*, 2017. <https://doi.org/10.1016/B978-0-12-809324-5.02099-X>.
53. **Sereno AB**, Patel SS, Shrestha Y, Red SD. Touch Sensitive System and Method for Cognitive and Behavioral Testing and Evaluation. *U. S. Patent No. 9,949,693(B2)*. Washington, DC: U.S. Patent and Trademark Office, April 24, 2018.
54. **Sereno, A.B.** and Lehky, S.R. Attention effects on neural population representations for shape and location are stronger in the ventral than dorsal stream. *eNeuro*, 5(2) e0371-17.2018 1-18, 2018.
55. Li, E.K., Lee S., Patel, S.S., and **Sereno, A.B.** Age-dependent performance on pro-point and anti-point tasks, *Frontiers in Psychology*, 9:2519, 2018. doi: 10.3389/fpsyg.2018.02519.
56. **Sereno, A.B.**, Lehky, S.R., Sereno, M.E. Representation of shape, space, and attention in monkey cortex, *Cortex*, 2019.
57. Lehky, S.R., and **Sereno, A.B.** Extrinsic and intrinsic representations. Commentary on Romain Brette, Is coding a relevant metaphor for the brain? *Behavioral and Brain Sciences*, accepted.
58. Mehta, N., Babin, S., Chuang, A.Z., Patel, S.S., and **Sereno, A.B.** Greater executive function benefits of olanzapine in cognitively impaired schizophrenia patients, *Human Psychopharmacology: Clinical and Experimental*, accepted.

59. Balagopal, R., Won, M., Patel, S.S., Chuang, A.Z., and **Sereno, A.B.** Heading-related slowing by 24 hours in youth athletes, submitted.

B. Invited Articles:

1. **Sereno, A.B.** Attention and Attentional Dysfunction. *The Neuroscience Research Center Newsletter*, 8(1): 1-6, 2001.
2. **Sereno, A.B.** The Eyes Have It: Orienting in Autism Spectrum Disorders. [*The Neuroscience Research Center Newsletter*](#), 23(2): 1-10, 2017.

C. Chapters:

1. **Sereno, A.B.** Programming saccades: The role of attention. In K. Rayner (ed.), *Eye Movements and Visual Cognition: Scene Perception and Reading*, New York: Springer Verlag. 89-107, 1992.
2. **Sereno, A.B.** Parsing cognitive processes: Psychopathological and neurophysiological constraints. In S. Matthyssse, D.L. Levy, J. Kagan, and F.M. Benes (eds.), *Psychopathology: The Evolving Science of Mental Disorder*, New York: Cambridge University Press. 407-432, 1996.
1. **Sereno, A.B.**, Lehky, S.R., Patel, S., and Peng, X. A neurophysiological correlate and model of reflexive spatial attention. In N. Srinivasan, Bhoomika R. Kar, and J. Pandey (eds.), *Advances in Cognitive Science: Volume 2*, 2010.

D. Other Professional Communications:

1. Conference Presentations (last 2 year)

1. 3rd Joint Symposium of the International and National Neurotrauma Societies and AAMS/CNS Section on Neurotrauma and Critical Care, Neurotrauma2018 conference (Toronto, Canada), “Heading-related slowing by 24 hours in youth athletes”, August 14, 2018.
2. Purdue University / Indiana University Joint Symposium on Spinal Cord and Brain Injury Research, Purdue Memorial Union – South Ballroom, Purdue University, September 24, 2018.
3. Indiana University / Purdue University Joint Symposium on Spinal Cord and Brain Injury Research, “Effect of repetitive head impacts on sensorimotor and cognitive performance of high school football players,” November 1, 2019.

2. Presentations

INTERNATIONAL INVITED PRESENTATIONS:

1. Eye Movements and Visual Cognition Conference, University of Massachusetts, Amherst, August 1990.
2. Dalhousie University (Halifax, Canada), Department of Psychology, December 1996.
3. McDonnell-Pew Program in Cognitive Neuroscience, Annual Program Meeting, Montréal, Canada, June 1998.
4. Glasgow University (Glasgow, Scotland), Department of Psychology, January 22, 2001.
5. Max Planck Institute for Biological Cybernetics (Tübingen, Germany), Physiology of Cognitive Processes, January 25, 2001.
6. University of Houston, the *University of Houston Scholarship & Community Conference XI: Bringing Science into Life*, “From Vision to Thought”, Oct 1, 2003.
7. 12th World Congress of Psychophysiology, *the Olympics of the Brain*, “Electrophysiological evidence for hyper-excitation across domains in schizophrenia”, Porto Carras, Halkidiki, Greece, September 19, 2004.
8. Society for Psychophysical Research, “Problems with expectancy in schizophrenic patients and expectancy-related electrophysiology in monkeys”, Lisbon, Portugal, September 25, 2005.
9. Second International Conference on Cognitive Science, “Inhibition of return: A neurophysiological correlate in the lateral intraparietal area”, Allahabad, India, December 12, 2006.

10. Wales University, Psychology Department, Cognitive Neuroscience Colloquium (Bangor, Wales), "A neurophysiological correlate and model of reflexive spatial attention," June 12, 2009.
11. Keynote Address, Wales Institute of Cognitive Neuroscience Annual Conference (Deganwy, Wales), "Neural substrates of spatial and shape visual processing," July 9, 2009.
12. University College London, Institute of Cognitive Neuroscience (London, England), "Neural substrates of spatial and shape visual processing," July 29, 2009.
13. Public Lecture, Wales Institute of Cognitive Neuroscience (Bangor, Wales), "Eye movements and human disease," July 30, 2009.
14. Max Planck Institute for Biological Cybernetics (Tübingen, Germany), "Neural substrates of spatial and shape visual processing," August 6, 2009.
15. Gordon Research Conference (Biddeford, Maine), Oculomotor Systems Biology, Visual Processing for Eye Movements, "Population coding of visual space: dorsal versus ventral", July 31-August 5, 2011.
16. 28th Annual Meeting of the Society for Research in Psychopathology (Chicago, Illinois), Schizophrenia from Phenomenology to Genes, September 18, 2014.
17. 42nd Annual Interdisciplinary Conference (Breckenridge, Colorado), January 29-February 3, 2017.

NATIONAL INVITED PRESENTATIONS:

1. Yale University, Department of Neuroanatomy, January 1991.
2. University of Rochester, Center for Visual Science, February 1991.
3. Rutgers University, Center for Molecular and Behavioral Neuroscience, February 1991.
4. NIMH, Laboratory of Neuropsychology, March 1991.
5. Tufts University, April 1992.
6. American Academy of Arts and Sciences, Cambridge, Massachusetts, Psychopathology: The Evolving Science of Mental Disorder, symposium, October 1992.
7. Northwestern University, Psychology Department, February 1993.
8. Rutgers University, Center for Molecular and Behavioral Neuroscience, February 1993.
9. University of Washington, Psychology Department, March 1993.
10. National Alliance for Research in Schizophrenia and Depression (NARSAD), Scientific Symposium, Drake Hotel, Chicago, September 1994.
11. Harvard University, Psychology Department, Vision Sciences Seminar, May 1996.
12. Harvard Medical School, Department of Psychiatry, McLean Hospital, Psychology Research Lab, May 1996.
13. New York University, Department of Psychology, January 1997.
14. Georgetown University, Institute for Cognitive and Computational Sciences, February 1998.
15. Yale University, Department of Neuroanatomy, May 1998.
16. University of Texas Medical School at Houston, Department of Neurobiology and Anatomy, July 1998.
17. Vanderbilt University, Department of Psychology, October 1998.
18. The Sackler Institute, Weill Medical College of Cornell University, December 12, 2000.
19. Harvard University, McLean Hospital, Neuroscience Seminar, January 16, 2001.
20. Shriver Center, Center for Developmental Cognitive Neuroscience, January 17, 2001.
21. Harvard University, Psychology Department, Vision Sciences Seminar, January 17, 2001.
22. Brigham and Women's Hospital, Brigham Behavioral Neurology Group, Behavioral Neuroscience Seminar Series, January 18, 2001.
23. The Chicago Medical School, Department of Neuroscience, April 3, 2001.
24. American Academy of Arts and Sciences, Cambridge, Massachusetts, October 23, 2004.
25. Baylor College of Medicine, Division of Neuroscience, "Voluntary and Reflexive Processes: From Monkey Physiology to Human Disorders", May 6, 2005.
26. University of Houston, College of Optometry, March 2007.
27. University of Oregon, Department of Psychology, July 2007.
28. University of Illinois at Chicago School of Medicine, Center for Cognitive Medicine, Neurobehavioral Seminar Series, "Cognitive deficits in human disorders: Their role in diagnosis and treatment", October 16, 2009.

29. Harvard University, Department of Psychology, Vision Sciences Lab, "Eye position signals in dorsal and ventral streams," August 5, 2011.
30. Gulf Coast Consortium, Center for NeuroEngineering Symposium "Modeling shape, space, and attention and potential uses in brain-machine interfaces," September 14, 2012.
31. Stanford University, Department of Psychology, Memory, Attention, Decision Lecture, "Executive function, tablets, and population decoding", February 11, 2013.
32. University of Houston, Center for Neuroengineering and Cognitive Science, Seminar Series, "What's where? And, where's in what? The role of population decoding," April 4, 2014.
33. Johns Hopkins University, Krieger Mind/Brain Institute, "Population decoding of shape and space," June 4, 2014.
34. University of California, Irvine, "Population decoding of shape and space," August 11, 2014.
35. University of Chicago, Grossman Institute for Neuroscience, "A neurophysiological correlate and model of attention and memory", October 13, 2015.
36. Purdue University, Winer Memorial Lecture, "A neurophysiological correlate and model of attention and memory", April 25, 2016.
37. Purdue University, Weldon School of Biomedical Engineering Colloquium, "Cognition: From Cells to Intelligent Engineering", April 27, 2017.
38. Alabama University, Neuroscience Retreat, "Development of quick behavioral biomarkers for brain injury", July 23, 2017.
39. The City University of New York, Attention and Awareness, a Festschrift in Honor of Bob Rafal, Attention effects on neural population representations for shape and location are stronger in the ventral than dorsal stream, March 22, 2018.
40. University of California at Berkeley, Department of Psychology, The Neural Basis of Attention. Mechanism and model of reflexive spatial attention and memory, March 22, 2019.
41. University of Illinois, Beckman Institute, Department of Psychology, Cognitive Neuroscience Brownbag, December 9, 2019.
42. School of Optometry, Indiana University, Oxyopia Colloquium, TBD, March 27, 2020.

LOCAL INVITED PRESENTATIONS:

1. National Alliance for Research in Schizophrenia and Depression (NARSAD), Decade of the Brain, Houston, September 1993.
2. Baylor College of Medicine, Division of Neuroscience, Neuro Reports, May 1995.
3. Vision Journal Club, University of Texas Medical School at Houston, October 1999.
4. Psychiatry Lecture Series, Department of Psychiatry and Behavioral Sciences, University of Texas Medical School at Houston January 2000.
5. Rice University, Department of Psychology, February 2000.
6. Memory Journal Club, University of Texas Medical School at Houston, April 2000.
7. Rice University, Department of Psychology, January 2001.
8. Baylor College of Medicine, Division of Neuroscience, Special Topics in Neuroscience, Guest Lecture, October 2001.
9. Rice University, Department of Psychology, December 2002.
10. University of Texas Medical School at Houston, Department of Psychiatry and Behavioral Sciences Lecture Series, March 2003.
11. Rice University, Department of Psychology, Interdisciplinary Seminar Series on Mind, Body, and Behavior, March 2003.
12. Rice University, Department of Psychology, Methods in Cognitive Neuroscience, Guest Lecture, April 2003.
13. University of Texas Medical School at Houston, Department of Neurobiology & Anatomy Seminar Program, May 1, 2003.
14. Neuroscience Graduate Student Retreat, Neuroscience Student Council, Woodlands Resort and Convention Center, "Career Development: Helpful Tips", May 30, 2003.

15. Rice University, Department of Psychology, Cog Tea, “Nicotine and Voluntary Orienting”, November 10, 2004.
16. University of Texas Medical School at Houston, Neurology Department Grand Rounds, “Mechanisms of Higher Cognitive Functions”, January 14, 2005.
17. The John P. McGovern Museum of Health and Medical Science, “The Stroop Effect”, Houston, March 24, 2005.
18. University of Texas Medical School, Neurobiology & Anatomy Retreat, “Attention and Memory in Humans and Monkeys”, April 8, 2006.
19. University of Texas Medical School Retreat, at the Institute of Molecular Medicine, “Eye movements as a window into understanding executive functions and human disorders,” October 6, 2006.
20. University of Texas Medical School at Houston, Neurology Grand Rounds, March 2007.
21. UT Medical School at Houston, Career Development II for Postdoctoral Fellows, CV Training, January 2008.
22. UT Medical School at Houston, Neurobiology & Anatomy Department Colloquium, March 4, 2008.
23. Rice University, Department of Psychology, September 23, 2009.
24. University of Texas Medical School at Houston, Neurosurgery Grand Rounds, April 2009.
25. University of Texas Medical School at Houston, Neurobiology of Disease, October 14, 2009.
26. University of Texas Medical School at Houston, Neuroscience Research Center, 15th Annual Public Forum, “Childhood Brain Diseases,” February 6, 2010.
27. University of Texas Medical School at Houston, Neurobiology and Anatomy Departmental Colloquium, “Modeling Space and Other Such Things,” May 24, 2010.
28. Rice University, Brain Awareness Week Lecture Series, Farnsworth Pavilion, Rice Memorial Center, “Mechanisms of Attention and Memory,” March 19, 2011.
29. University of Texas Medical School at Houston, Neurobiology and Anatomy Departmental Colloquium, “iPads, Population Coding, and Brain-Machine Interfaces,” June 14, 2012.
30. University of Texas Medical School at Houston, Neurobiology of Disease, “Schizophrenia and Parkinson’s disease: Attention and Memory Deficits,” October 4, 2012.
31. Mission Connect, “Development of quick behavioral biomarkers for predictors of post-concussion symptoms,” September 12, 2014.
32. Gulf Coast Cluster for Neuroengineering, 4th Annual NeuroEngineering Symposium, Session Chair, Short Talks, Session 2, October 27, 2014.
33. Mission Connect, External Grant Review Board, “Development of quick behavioral biomarkers for predictors of post-concussion symptoms,” May 10, 2015.
34. TIRR Family Executive Committee Meeting, “Development of quick behavioral biomarkers for brain injury,” September 15, 2015.
35. NeuroX Mini-Symposium, Rice University, “Attention and Memory,” May 25, 2016.
36. Rice University, Department of Psychology, Cog Tea, “New insights in attention, memory, and cognitive control”, November 2016.
37. University of Texas McGovern Medical School at Houston, Neuroscience Research Center, 22nd Annual Public Forum, “Autism Spectrum Disorders in the Age of DSM-5”, Cooley Life Center, March 25, 2017.
38. The University of Texas MD Anderson Cancer Center UTHHealth Graduate School of Biomedical Sciences, Translational Science Interest Group Meeting, “Cognition: From Cells to Clinic”, March 29, 2017.
39. Neurobiology and Anatomy Departmental Retreat, McGovern Medical School, Sereno Lab Research, May 4, 2017.
40. Translational Psychiatry Seminar Series, University of Texas McGovern Medical School at Houston, “Development of quick behavioral biomarkers of executive function”, Biomedical Sciences Building, September 8, 2017.
41. Brain and Spinal Cord Injury Seminar Series, Institute for Integrative Neuroscience, Purdue University, “Development of quick behavioral biomarkers for brain injury”, January 31, 2018.
42. Mathematical and Computational Cognitive Science Seminar Series, Purdue University, April 2, 2018.
43. Neurosciences Research Institute, Indiana University School of Medicine, Spinal Cord Brain Injury Research Group Seminar, Indianapolis, IN, May 1, 2018.

44. NeuroNetworking Summer Seminar Series, Purdue Institute for Integrative Neuroscience, Purdue University Discovery Park “Attentional modulation of visual representations in non-human primate cortex”, June 27, 2018.
45. Neuroscience Seminar Series, Psychology, Purdue University, September 5, 2018.
46. Cognitive Seminar Series, Psychology, Purdue University, Attentional modulation of visual representations in non-human primate cortex, October 3, 2018.
47. Purdue Foundry, Firestarter, “An app for brain injury detection”, December 6, 2018.
48. Purdue Foundry, Customer Discovery and Market Validation, February 1 and 8, 2019.
49. Integrative Data Science Initiative, Emerging Frontiers in Data Science Applications, “Data driven and neural-plausible modeling”, November 20, 2019.
50. Mathematical and Computational Colloquium, Psychology, Purdue University, February 10, 2018.
51. Cognitive Colloquium, Psychology, Purdue University, February 12, 2018

3. Non-refereed publications:

Sereno, A.B. Commentary on Moran and Desimone's 'spotlight' in V4. Harvard University, 1990.

E. Other Professional Communications to Lay Audiences:

INTERNATIONAL INTERVIEWS AND PRESENTATIONS OF RESEARCH (selected examples):

1. Daily Mail (UK), February 27, 2013 http://www.dailymail.co.uk/health/article-2285412/Heading-football-cause-brain-damage.html?ITO=1490&ns_mchannel=rss&ns_campaign=1490.
2. Belfast Telegraph (UK), February 27, 2013: <http://www.belfasttelegraph.co.uk/news/world-news/heading-the-ball-may-damage-brain-29099565.html>.
3. Wissenschaft (Germany), February 28, 2013: http://www.wissenschaft-aktuell.de/artikel/Riskanter_Koerpereinsatz_Kopfbaele_koennen_dauerhafte_Hirnschaeden_verursachen1771015588982.html.
4. India Vision News, February 28, 2013: <http://www.indiavision.com/news/article/scitech/401696/heading-soccer-ball-may-affect-mental-ability/>.
5. La Vanguardia (Spain), February 28, 2013: <http://www.lavanguardia.com/ciencia/20130228/54367251587/remate-cabeza-puede-afectar-procesos-cognitivos-cerebro-futbolistas.html>.
6. China Daily, March 1, 2013: http://www.chinadaily.com.cn/cndy/2013-03/01/content_16265720.htm.
7. The Australian, March 1, 2013: <http://www.theaustralian.com.au/sport/football/brain-damage-in-soccer-players-linked-to-heading-the-ball/story-fn63e0vj-1226587957004>.
8. [Top 10 Concussion Research Articles of 2015](#), January 27, 2016, Defense and Veterans Brain Injury Center (DVBIC), Defense Department’s Center of Excellence for Traumatic Brain Injury.
9. [Brainline.org](#), WETA (Public TV and radio station in Washington, D.C.), February 2016, Top 10 Concussion Research Articles of 2015.

NATIONAL INTERVIEWS AND INVITED PRESENTATIONS OF RESEARCH (selected examples):

1. NBC Nightly News, March 2, 2013: <http://www.nbcnews.com/video/nightly-news/51021128/>
2. Wired, March 8, 2013: <http://www.wired.com/playbook/2013/03/soccer-headers-cognition/>
3. Fox radio station, Michigan, 1320 WILS, Capital City Recap with Michael Cohen, March 11, 2013: <http://1320wils.com/pages/capital-city-recap-segments>
4. New York Times, March 20, 2013: <http://well.blogs.nytimes.com/2013/03/20/new-worries-about-heading-the-soccer-ball/>
5. Boston Globe, May 18, 2014: <http://www.bostonglobe.com/opinion/2014/05/17/ban-heading-youth-soccer/F0jPt3oMlfajNfuphDFO8J/story.html>
6. Sun Sentinel, April 29, 2015: <http://www.sun-sentinel.com/news/ct-soccer-headers-concussion-met->

[20150428-story.html#page=1](#)

7. Chicago Tribune, April 29, 2015: <http://www.pressreader.com/usa/chicago-tribune/20150429>
8. [National MD News magazine](#), January 1, 2016, Redirecting the Debate about Concussions among Soccer Players.
9. BrainLine, WETA, Washington, D.C., February, 2016: www.brainline.org/content/2016/02/top-10-concussion-research-articles-of-2015.html

LOCAL INVITED INTERVIEWS AND PRESENTATIONS OF RESEARCH:

1. KPRC Channel 2, Local News, February 27, 2013: <http://www.click2houston.com/news/App-measures-head-injuries-in-soccer-players/-/1735978/19111450/-/3yiedc/-/index.html>.
2. University of Texas Medical School at Houston News, <https://med.uth.edu/news/soccer-header-research-garners-international-media-attention>.
3. Health Leader, June 18, 2014, Head Games: Does “brain training” make us smarter? <https://www.uthealthleader.org/story/head-games>
4. [TMC News](#), August, 24, 2015, Diagnosis for Concussion: There’s an App for That: Houston Researchers Make Headway with Smart Tablet Diagnosis Tool.
5. TIRR Foundation Advancements Newsletter, Fall 2015, Diagnosis for Concussion: There’s an App for That.
6. KUHF, [Houston Matters](#), Houston Public Media, January 5, 2017.
7. [TIRR Foundation](#), January 6, 2017.
8. McGovern Medical School, UTHealth-Houston, [Scoop Newsletter](#), Tablet-based tasks show promise as training tools for individuals with ASD: Study. April 10, 2018.

F. Visiting Professorships:

2008-2009 Wales Institute of Cognitive Neuroscience, Visiting Scholar

G. Patents and Patent Applications Pending:

Sereno AB, Patel SS, Shrestha Y, Red SD. Touch Sensitive System and Method for Cognitive and Behavioral Testing and Evaluation. [U.S. Patent Application](#) No. US 20140249447 A1, 2014.

Sereno, A.B., Patel, S.S., Shrestha, Y., and Red, S.D. (2017). Touch Sensitive System and Method for Cognitive and Behavioral Testing and Evaluation. U. S. Patent No. 9,717,459(B2). Washington, DC: U.S. Patent and Trademark Office.

Sereno, A.B., Patel, S.S., Shrestha, Y., and Red, S.D. (2018). Touch Sensitive System and Method for Cognitive and Behavioral Testing and Evaluation. U. S. Patent No. 9,949,693(B2). Washington, DC: U.S. Patent and Trademark Office.