

## George Hollich

- Assistant Professor
- Department of Psychological Sciences
- College of Liberal Arts
- Audiovisual Perception and Language Acquisition in Infants



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## Current Research Areas

- Empirical Studies of Infant Audiovisual Perception and Language Acquisition, including Word Learning and Grammatical Understanding.
- Effects of Noise on Language Learning and Compensatory Strategies used by Infants.
- Sensory-Oriented Computational Models of Audiovisual Perception and Language Acquisition

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## Methodologies

### Empirical Studies

- Intermodal Preferential Looking

### Computational Modeling

- iSenseStream
- IKAROS



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## Recent Results

Infants use what they see to separate streams of speech in noisy environments. (Hollich, Newman, & Jusczyk, 2005, *Child Development*).

A signal-level model of audiovisual synchrony combined with a model of visual attention can account for more than 90% of the variance in infants' moment-by-moment looking behavior in an audiovisual preferential looking task. (Hollich & Prince, under review, *Developmental Science*).

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## Future Directions

Empirical tests of individual infants' skills at audiovisual integration and the correlations with their hearing ability, home environment, and temperament.

Signal-Level modeling of audiovisual integration, especially with regard to current theories of word learning.

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