

Joseph Toscano, PhD

Assistant Professor of Psychological and Brain Sciences | College of Liberal Arts and Sciences at Villanova University

Villanova, PA, US

Joseph Toscano, PhD, is an expert in human speech recognition and language comprehension through the study of brain and behavior.

Biography

Understanding how humans perceive speech and comprehend language through the study of brain and behavior is the focus of Dr. Toscano's research. He uses several lab methods (cognitive neuroscience, behavioral experiments, and computational models) to address questions about the neurobiology of language, to study the processes involved in speech development, and to build computer systems that learn to recognize speech the same way that humans do. Dr. Toscano is also working to develop tests that can be used to better assess hearing loss by measuring both brain responses and behavior. He directs the Word Recognition and Auditory Perception Lab at Villanova.

Industry Expertise

Research, Education/Learning

Areas of Expertise

Psychology, Cognitive Psychology, Perception and Language, Speech Communication, Language Development, Hearing Loss, Speech recognition, Perception, Cognitive Neuroscience, Neural Networks

Affiliations

Psychonomic Society, Cognitive Science Society, Acoustical Society of America

Education

University of Illinois at Urbana-Champaign

Postdoctoral Fellow

University of Iowa

PhD

University of Rochester

BS

Select Accomplishments

Select-Speaker Award

2014

Psychonomic Society

Beckman Fellowship

2011

Beckman Institute for Advanced Science & Technology

Computational Modeling Prize in Perception and Action

2008

Cognitive Science Society

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