

# **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.

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## **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.

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## **Industry Expertise**

Research, Education/Learning

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## **Areas of Expertise**

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

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## **Affiliations**

Psychonomic Society, Cognitive Science Society, Acoustical Society of America

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## **Education**

**University of Illinois at Urbana-Champaign**

Postdoctoral Fellow

**University of Iowa**

PhD

**University of Rochester**

BS

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## **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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