

**Sarah Koopman**  
Department of Brain & Cognitive Sciences  
University of Rochester  
skoopman@ur.rochester.edu

**EDUCATION**

**PhD Candidate, Brain & Cognitive Sciences** 2013 - present  
University of Rochester Rochester, NY

**Master of Arts in Brain & Cognitive Sciences** 2016  
University of Rochester Rochester, NY

Committee: Jessica Cantlon (advisor), Brad Mahon, Steve Piantadosi

**Bachelor of Arts in Neuroscience** 2011  
Wellesley College Wellesley, MA

**AWARDS AND HONORS**

**NSF GROW Fellowship** 2017

**Curtis Award for Excellence in Teaching by a Graduate Student** 2016  
University of Rochester

**NSF Graduate Research Fellowship** 2014 - 2017

**Sproull Fellowship** 2013 - 2014  
University of Rochester

**Neuroscience Department Honors** 2011  
Wellesley College

**Sigma Xi** 2011

**Hubel Thesis Writing Prize** 2011  
Wellesley College

**Amabel Boyce James Fund for Summer Research in the Sciences Award** 2010  
Wellesley College

**RESEARCH EXPERIENCE**

**Concepts, Actions, and Objects Lab (University of Rochester)**  
Graduate Research Assistant 2013 - present

**Tomonaga Lab, Primate Research Institute (Kyoto University)**  
GROW Fellow 2017 - 2018

**Miller Lab, Picower Institute for Learning and Memory (MIT)**  
Technical Assistant 2011 - 2013

**Human Variation Lab (Wellesley College)**  
Honors Thesis 2010 - 2011  
Research Assistant 2009 - 2011

## TEACHING EXPERIENCE

### Guest Lectures

- “Understanding of 1-to-1 Correspondence by Non-Human Primates”  
Animal Minds (J. Cantlon) Fall 2016
- “Conceptual Organization in Primates”  
Animal Minds (J. Cantlon) Fall 2016
- “Comparative Cognition”  
Development of Mind and Brain (R. Aslin & C. Kidd) Spring 2016
- “Conceptual Organization in Primates”  
Animal Minds (J. Cantlon) Fall 2015
- “Comparative Cognition”  
Development of Mind and Brain (R. Aslin & C. Kidd) Spring 2015
- “Conceptual Organization in Primates”  
Animal Minds (J. Cantlon) Fall 2014

### Graduate Teaching Assistant

- Animal Minds (J. Cantlon) Fall 2016
- Development of Mind and Brain (R. Aslin & C. Kidd) Spring 2016
- Development of Mind and Brain (R. Aslin & C. Kidd) Spring 2015

## RESEARCH TALKS

**Koopman, S. E.** (2017). The origins of numerical cognition. **Talk** presented at the Primate Research Institute Psychology Seminar, Kyoto University, Inuyama, Japan.

**Koopman, S. E.** (2017). The origins of numerical cognition. **Talk** presented at the Brain & Cognitive Sciences Department Lunch Series, University of Rochester, Rochester, NY.

**Koopman, S. E.** (2016). The evolutionary foundation of numerical cognition. **Talk** presented at the Brain & Cognitive Sciences Department Lunch Series, University of Rochester, Rochester, NY.

**Koopman, S. E.** & Wilmer, J. (2011). Keep your eye on the ball: Playing and watching sports linked to smooth pursuit precision. **Talk** presented at the Ruhlman Conference, Wellesley College, Wellesley, MA.

## POSTERS

**Koopman, S. E.**, Cantlon, J. F., Piantadosi, S. T., & MacLean, E. L. (2017). The evolution of quantitative sensitivity. **Poster** presented at the Support for African/Asian Great Apes (SAGA) Symposium, Inuyama, Japan.

Brown, K., **Koopman, S. E.**, & Cantlon, J. F. (2017). One-to-one correspondence helps monkeys better differentiate exact numbers. **Poster** presented by K. Brown at the Annual Meeting of the Animal Behavior Society, Toronto, ON.

**Koopman, S. E.**, Arre, A. M., Piantadosi, S. T., & Cantlon, J. F. (2017). Understanding the 1-to-1 correspondence principle without counting. **Poster** presented at the Biennial Meeting of the Society for Research in Child Development, Austin, TX.

**Koopman, S. E.**, Mahon, B. Z., & Cantlon, J. F. (2015). Common signatures of conceptual processing in monkeys and humans. **Poster** presented at the Biennial Meeting of the Cognitive Development Society, Columbus, OH.

**Koopman, S. E.**, Mahon, B. Z., & Cantlon, J. F. (2014). Common conceptual structures in monkeys and humans. **Poster** presented at the International Conference on Comparative Cognition, Melbourne, FL.

**Koopman, S. E.**, Tsoi, L., & Wilmer, J. (2011). Keep your eye on the ball: Playing and watching sports linked to smooth pursuit precision. **Poster** presented at the Vision Sciences Society Annual Meeting, Naples, FL.

Tsoi, L., **Koopman, S. E.**, & Wilmer, J. (2011). Video-game training improves smooth pursuit precision. **Poster** presented by L. Tsoi at the Vision Sciences Society Annual Meeting, Naples, FL.

**Koopman, S. E.** & Wilmer, J. (2010). Factors correlated with smooth pursuit eye movements. **Poster** presented at the Summer Research Joint Poster Session, Wellesley College, MA.

Chen, C. & **Koopman, S. E.** (2010). You look so familiar! A study of the relationship between personality and face memory. **Poster** presented at the Ruhlman Conference, Wellesley College, MA.

## **PUBLICATIONS**

**Koopman, S. E.**, Cantlon, J. F., Piantadosi, S. T., MacLean, E. L., et al. (in prep). The Evolution of Quantitative Sensitivity.

**Koopman, S. E.**, Mahon, B. Z., & Cantlon, J. F. (2016). Evolutionary constraints on human object perception. *Cognitive Science*.

## **UNDERGRADUATE MENTORSHIP**

Kristin Smith (Research Assistant)	2017-Present
Tomas Waz (Research Assistant)	2016-Present
Yiyun Huang (Research Assistant)	2016-Present
Abigail Haslinger (Research Assistant)	2015-2017
Gabrielle Bueno (Research Assistant)	2014-2017

Alyssa Arre (Research Assistant) 2013-2015  
Yinghui Qiu (Research Assistant) 2013-2015

### **Mentee Awards**

National Conference on Undergraduate Research Invited Talk  
(Council on Undergraduate Research): Abigail Haslinger 2017

Deans' Award for Undergraduate Research 2017  
(University of Rochester): Gabrielle Bueno

President's Award for Undergraduate Research 2015  
(University of Rochester): Alyssa Arre

Professor's Choice Award for Undergraduate Research 2015  
(University of Rochester): Yinghui Qiu

### **SCIENCE OUTREACH**

**Brain Awareness Week Student Representative** 2014-Present  
Neuroscience Department, University of Rochester

### **SKILLS AND QUALIFICATIONS**

Software: Microsoft Office, MATLAB, R, Visual Basic.  
Languages: Basic knowledge of French and Japanese.