

# Kenneth Tyler Wilcox

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Updated: May 21, 2019

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## Education

*University of Notre Dame*, Notre Dame, IN

Ph.D. Quantitative Psychology expected 05/2022

*Rochester Institute of Technology*, Rochester, NY

M.S. Applied Statistics 2017

*Thesis:* Bayesian hidden topic Markov models

B.S. Psychology 2013

## Grants and Awards

**University of Notre Dame** 2017–present

University Presidential Fellowship

**Upstate Chapters of the American Statistical Association** 2016

Honorable Mention for Oral Presentation Based on Methodology and Theory

**Rochester Institute of Technology Center for Quality and Applied Statistics** 2015

John D. and Rachel E. Hromi Endowed Scholarship

**Association for Psychological Science Student Caucus** 2014

Travel Assistance Award (\$200)

**Rochester Institute of Technology College of Liberal Arts**

Outstanding Undergraduate Scholarship Award 2013

Student Research Fund (\$72) 2013

Kearse Award for Excellence in Writing 2012

## Teaching Experience

*Rochester Institute of Technology*

**Teaching Assistant**, School of Mathematical Sciences 08/2016–05/2017

Courses: Elements of Statistical Theory (graduate course), Principles of Statistical Data Mining (graduate course)

**Recitation Instructor**, School of Mathematical Sciences 08/2016–12/2016  
 Course: Elements of Statistical Theory (graduate course)

**Tutor**, Academic Support Center 09/2010–05/2013, 10/2014–05/2017  
 Courses: Calculus, Multivariate Calculus, Linear Algebra, Differential Equations, University Physics, Probability, Statistics, Regression Analysis, Design of Experiments, Stochastic Processes

**Recitation Instructor**, School of Mathematical Sciences 09/2015–12/2015  
 Course: Elements of Statistical Theory (graduate course)

**Teaching Assistant**, Center for Quality and Applied Statistics 01/2015–12/2015  
 Courses: Statistical Software (graduate course), Probability and Statistics II for Engineers

**Instructor**, Academic Support Center 10/2014–12/2015  
 Course: Critical Mathematical Skills

**Tutor**, Arthur O. Eve Higher Education Opportunity Program 07/2012–08/2012  
 Courses: Pre-Calculus, Algebra

## Research Experience

*Rochester Institute of Technology, Rochester, NY*

**Statistician**, Department of Psychology 02/2016–present  
 Research collaborator: Caroline M. DeLong

**Statistician**, Department of Service Systems 05/2017–07/2017  
 Research collaborators: Malarvizhi Hirudayaraj, Martin Anselm

**Research Assistant**, Department of Psychology 03/2012–05/2013  
 Research adviser: Caroline M. DeLong

**Research Assistant**, Department of Psychology 11/2011–05/2013  
 Research adviser: John Edlund

*SUNY Upstate Medical University, Syracuse, NY*

**Research Analyst**, Department of Psychiatry and Behavioral Sciences 06/2013–08/2013  
 Research adviser: John Manring

**Research Intern**, Department of Neurosurgery 07/2011–09/2011  
 Research advisers: John Manring, Satish Krishnamurthy

## Employment

*Soleo Communications*, Data Scientist

01/2016–08/2016

## Publications

### *Journal Articles*

- DeLong, C. M., Wright, C., Fobe, I., **Wilcox, K. T.**, & Morrison, E. (2019). North American river otters (*Lontra canadensis*) discriminate between 2D objects varying in shape and color. *Learning & Behavior*, 47(1), 91-104. <https://doi.org/10.3758/s13420-018-0346-x>
- DeLong, C. M., Fobe, I., O'Leary, T., & **Wilcox, K. T.** (2018). Visual perception of planar-rotated 2D objects in goldfish (*Carassius auratus*). *Behavioural Processes*, 157, 263-278. <https://doi.org/10.1016/j.beproc.2018.10.009>
- DeLong, C. M., Keller, A. M., **Wilcox, K. T.**, Fobe, I., & Keenan, S. A. (2018). Visual discrimination for geometric and complex 2D shapes in goldfish (*Carassius auratus*). *Animal Behavior and Cognition*, 5(3), 300-319. <https://doi.org/10.26451/abc.05.03.05.2018>
- DeLong, C. M., Barbato, S., O'Leary, T., & **Wilcox, K. T.** (2017). Small and large number discrimination in goldfish (*Carassius auratus*) with extensive training. *Behavioural Processes*, 141(P2), 172-183. <https://doi.org/10.1016/j.beproc.2016.11.011>
- Edlund, J.E., Nichols, A. L., Okdie, B. M., Guadagno, R. E., Eno, C. A., Heider, J. D., Hansen, E., Sagarin, B. J., Blackhart, G., Cottrell, C. A., & **Wilcox, K. T.** (2014). The prevalence and prevention of crosstalk: A multi-institutional study. *The Journal of Social Psychology*, 154(3), 181-185. <https://doi.org/10.1080/00224545.2013.872596>

### *Conference Proceedings*

- Fobe, I., DeLong, C. M., & **Wilcox, K. T.** (2017). An exploration of rhythm perception in African penguins (*Spheniscus demersus*). *Proceedings of Meetings on Acoustics*, 31(1). <https://doi.org/10.1121/2.0000773>

### *Manuscripts Under Review*

- Wilcox, K. T.** & Wang, L. Integrative data analysis using multilevel modeling: Why, how, and when. Manuscript submitted for publication.

### *Manuscripts in Preparation*

- Wilcox, K. T.**, Jacobucci, R., McCloskey, M. A., & Ammerman, B. A. A topic mining approach to characterizing interpersonal stress among nonsuicidal self-injury. Manuscript in preparation.
- Wilcox, K. T.**, Jacobucci, R., & Zhang, Z. Supervised latent Dirichlet allocation with covariates: A Bayesian joint regression model of text and covariates. Manuscript in preparation.

Jacobucci, R., Ammerman, B., & **Wilcox, K. T.** The application of machine learning for text-based responses to improve suicide risk prediction. *Suicide and Life Threatening Behavior*. Manuscript in preparation; invited for special issue.

**Wilcox, K. T.** & Fokoué, E. P. A Bayesian hidden topic Markov model for latent linguistic structure. Manuscript in preparation.

## **Presentations**

### *Invited Seminars*

### *Peer-Reviewed Conference Presentations*

**Wilcox, K. T.**, Jacobucci, R., McCloskey, M. S., & Ammerman, B. A. (2019, March). Evaluating personal narratives of interpersonal relationships via text mining to predict nonsuicidal self-injury. Paper submitted for presentation at the 53rd Annual Convention for the Association for Behavioral and Cognitive Therapies, Atlanta, Georgia.

Ammerman, B. A., **Wilcox, K. T.**, & Jacobucci, R. (2019, March). A nuanced examination of the relationship between social connectedness and suicidal ideation. Paper submitted for presentation at the 53rd Annual Convention for the Association for Behavioral and Cognitive Therapies, Atlanta, Georgia.

DeLong, C. M., Morrison, E., Wegman, J., Rachfal, T., & **Wilcox, K. T.** (2019, April). Visual perception of rotated 2D color representations of familiar 3D objects in goldfish (*Carassius auratus*). Paper presented at the 26th Annual International Conference on Comparative Cognition, Melbourne, FL.

**Wilcox, K. T.** (2018, July). A Bayesian hidden topic Markov model for latent linguistic structure. Paper presented at the 2018 International Meeting of the Psychometric Society, New York City, New York.

DeLong, C. M., Gardner, K., Rachfal, H., Morrison, E., & **Wilcox, K. T.** (2018, April). Visual discrimination of rotated 3D objects in goldfish (*Carassius auratus*). Paper presented at the 25th Annual International Conference on Comparative Cognition, Melbourne Beach, Florida.

Morrison, E., DeLong, C. M., Wright, C., Gardner, K., Rachfal, H., Gamble, M., **Wilcox, K. T.**, Frye, D., Thorner, H., Fobe, I., & Dami, J. (2018, April). North American river otters (*Lontra canadensis*) use shape and color to discriminate between 2D objects. Poster presented at the 25th Annual International Conference on Comparative Cognition, Melbourne Beach, Florida.

Fobe, I., DeLong, C. M., & **Wilcox, K. T.** (2017, December). An exploration of rhythm perception in African penguins (*Spheniscus demersus*). Paper presented at the 174th Meeting of the Acoustical Society of America, New Orleans, Louisiana.

DeLong, C. M., Fellner, W., Harley, H. E., Fobe, I., **Wilcox, K. T.**, Gardner, K., & Odell, K. (2017, November). Visual discrimination of rotated 2D objects in a bottlenose dolphin (*Tursiops truncatus*) and goldfish (*Carassius auratus*). Paper presented at the

Fall Meeting of the Comparative Cognition Society, Vancouver, British Columbia, Canada.

**Wilcox, K. T.** (2017, April). Text mining with a Bayesian hidden topic Markov model. Paper presented at the Sixth Annual Joint Conference of the Upstate Chapters of the American Statistical Association, Buffalo, NY.

DeLong, C. M., Fobe, I., **Wilcox, K. T.**, & O'Leary, T. (2017, April). Visual discrimination of rotated 2D objects in goldfish (*Carassius auratus*). Paper presented at the 24th Annual International Conference on Comparative Cognition, Melbourne, FL.

**Wilcox, K. T.** (2016, April). An introduction to ensemble methods for machine learning. Talk presented at the Fifth Annual Joint Conference of the Upstate Chapters of the American Statistical Association, Buffalo, NY.

**Wilcox, K. T.**, & DeLong, C. M. (2014, May). Mindfulness meditation and relaxation differentially improve mindfulness and affect, not emotional memory. Poster presented at the 26th Association for Psychological Science Annual Convention, San Francisco, CA.

Nichols, A. L., Edlund, J. E., Okdie, B. M., Guadagno, R. E., Eno, C. A., Heider, J. D., Hansen, E., Sagarin, B. J., Blackhart, G., Cottrell, C. A., & **Wilcox, K. T.** (2013, November). Predicting and preventing participant crosstalk: A multi-institutional investigation. Paper presented at the Second International Conference on Emerging Research Paradigms in Business and Social Sciences, Dubai, UAE.

#### *Student Symposium Presentations*

**Wilcox, K. T.**, Wright, C., & DeLong, C. M. (2012, August). Training North American river otters (*Lontra canadensis*) to discriminate among objects. Poster presented at the RIT Undergraduate Research and Innovation Symposium, Rochester, NY.

## **Institute Service**

*University of Notre Dame*

**Department of Psychology** 08/2018–present

**Quantitative Area Representative**, Graduate Advisory Committee

*Rochester Institute of Technology*

**Department of Applied Statistics** 01/2015–05/2017

**Secretary**, Data Science Research Group

**Summer Mathematics Institute (Rochester, NY)** 06/2016

Panel member for a panel discussion titled “On the Five Pillars of Statistical Science: Methodology, Theory, Computation, Applications and Data”

**Psychology Department** 03/2012–05/2013

Secretary, Psychology Student Society	
<b>College of Liberal Arts</b>	09/2012–05/2013
Student Representative, Eisenhart Nomination Committee	
<b>First Year Enrichment Program</b>	09/2010–05/2013
Peer Mentor	

## Professional Associations

American Psychological Association  
 American Psychological Association Division 5  
 American Statistical Association  
 Association for Psychological Science  
 Institute of Mathematical Statistics  
 Psychometric Society

## Professional Activities

*Association for Psychological Science*

<b>Association for Psychological Science Student Caucus</b>	12/2016, 12/2017, 12/2018
Reviewer, APSSC Student Grant Competition	
<i>Upstate Chapters of the American Statistical Association</i>	
<b>Sixth Annual Joint Conference (Buffalo, NY)</b>	04/2017
Chair for a session titled “Applications of Statistics in Environmental Studies”	
Judge for the 2017 Pre-College Statistical Data Analysis Competition	
<b>Fifth Annual Joint Conference (Buffalo, NY)</b>	04/2016
Judge for the 2016 Pre-College Statistical Data Analysis Competition	