Kenneth Tyler Wilcox

Graduate Research Assistant, University of Notre Dame
390 Corbett Family Hall · Department of Psychology · Notre Dame, IN 46556
✉ kwilcox3@nd.edu ✆ 315 209 7252 🌐 ktylerwilcox.netlify.com
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Education

University of Notre Dame, Notre Dame, IN

Ph.D. Quantitative Psychology   2022 (expected)

Rochester Institute of Technology, Rochester, NY

M.S. Applied Statistics   2017

    Thesis: Bayesian hidden topic Markov models

B.S. Psychology   2013

Employment

Soleo Communications, Data Scientist   2016

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

University of Notre Dame

Teaching Assistant, Department of Psychology   08/2019–12/2019

    Courses: Quantitative Methods I (graduate course)

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

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.

DeLong, C. M., Fellner, W., **Wilcox, K. T.**, Odell, K., & Harley, H. E. Visual perception in bottlenose dolphins: Successful recognition of 2D objects rotated in the picture and depth planes. 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.

Software Development

Wilcox, K. T. (2019). Psychtm: Text mining for psychological research (Version 2019.7) [Computer software]. Available at https://github.com/ktw5691/psychtm/

Presentations

Invited Seminars

Peer-Reviewed Conference Presentations

Wilcox, K. T. (2019, October). Bayesian supervised topic modeling with covariates. Poster submitted for presentation at the 17th Annual Society of Multivariate Experimental Psychology Graduate Student Conference, Baltimore, Maryland.

Wilcox, K. T., Jacobucci, R., McCloskey, M. S., & Ammerman, B. A. (2019, November). Evaluating personal narratives of interpersonal relationships via text mining to predict nonsuicidal self-injury. Paper accepted 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, November). A nuanced examination of the relationship between social connectedness and suicidal ideation. Paper accepted 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

College of Liberal Arts   09/2012–05/2013

    Student Representative, Eisenhart Nomination Committee

First Year Enrichment Program   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

Association for Psychological Science Student Caucus   12/2016, 12/2017, 12/2018

    Reviewer, APSSC Student Grant Competition

Upstate Chapters of the American Statistical Association

Sixth Annual Joint Conference (Buffalo, NY)   04/2017

    Chair for a session titled "Applications of Statistics in Environmental Studies"

Judge for the 2017 Pre-College Statistical Data Analysis Competition

Fifth Annual Joint Conference (Buffalo, NY)   04/2016

Judge for the 2016 Pre-College Statistical Data Analysis Competition