Kenneth Tyler Wilcox

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EDUCATION

Ph.D. Quantitative Psychology   2022 (expected)

   Department of Psychology, University of Notre Dame, Notre Dame, IN

M.S. Applied Statistics   2017

   School of Mathematical Sciences, Rochester Institute of Technology, Rochester, NY

B.S. Psychology   2013

   Department of Psychology, Rochester Institute of Technology, Rochester, NY

PUBLICATIONS

Refereed Journal Articles

Wilcox, K. T. & Wang, L. (In press). Modeling approaches for cross-sectional integrative data analysis: Evaluations and recommendations. *Psychological Methods*.

Hong, M., **Wilcox, K. T.**, & Cheng, Y. (In press). A constructed response model. *Multivariate Behavioral Research* (Abstract). https://doi.org/10.1080/00273171.2020.1852907

Jacobucci, R., Ammerman, B. A., & **Wilcox, K. T.** (In press). The use of text-based responses to improve our understanding and prediction of suicide risk. *Suicide and Life-Threatening Behavior*.

Ammerman, B. A., **Wilcox, K. T.**, O'Loughlin, C. M., & McCloskey, M. S. (2020). Characterizing the choice to disclose nonsuicidal self-injury. *Journal of Clinical Psychology*, 1–18. https://doi.org/10.1002/jclp.23045

Morrison, E. K., DeLong, C. M., & **Wilcox, K. T.** (2020). How humans discriminate acoustically among bottlenose dolphin signature whistles with and without masking by boat noise. *Journal of the Acoustical Society of America*, 147(6), 4162–4174. https://doi.org/10.1121/10.0001450

DeLong, C. M., Fellner, W., **Wilcox, K. T.**, Odell, K., & Harley, H. E. (2020). Visual perception in bottlenose dolphins (*Tursiops truncatus*): Successful recognition of 2-D objects rotated in the picture and depth planes. *Journal of Comparative Psychology*, 134(2), 180–196. https://doi.org/10.1037/com0000207

Wilcox, K. T., Jacobucci, R., & Zhang, Z. (2020). Bayesian supervised topic modeling with covariates. *Multivariate Behavioral Research*, *55*(1), 141 (Abstract). https://doi.org/10.1080/00273171.2019.1695568

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*, 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 of 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 IN SUBMISSION

MANUSCRIPTS IN PREPARATION

Che, C., **Wilcox, K. T.**, & Zhang, Z. Evaluation of the unsupervised latent Dirichlet allocation model though simulation.

Hong, M., & **Wilcox, K. T.**. A joint modeling framework for item response and topic models.

Wilcox, K. T., Jacobucci, R., McCloskey, M. A., & Ammerman, B. A. A topic mining approach to characterizing interpersonal stress among nonsuicidal self-injury.

Wilcox, K. T., Jacobucci, R., & Zhang, Z. Supervised latent Dirichlet allocation with covariates: A Bayesian joint regression model of text and covariates.

SOFTWARE DEVELOPMENT

Wilcox, K. T. (2020). *psychtm: Text mining for psychological research* (Version 2020.9) [Computer software]. https://github.com/ktw5691/psychtm/

AWARDS AND HONORS

2020 Graduate Student Union Outstanding Teaching Assistant Award ($300) — University of Notre Dame

2019 Travel Assistance Award ($1,500) — Society of Multivariate and Experimental Psychology

2017 University Presidential Fellowship — University of Notre Dame

2016 Honorable Mention for Oral Presentation Based on Methodology and Theory ($50) — Upstate Chapters of the American Statistical Association

2015 John D. and Rachel E. Hromi Endowed Scholarship — Rochester Institute of Technology, Center for Quality and Applied Statistics

2014 Travel Assistance Award ($200) — Association for Psychological Science Student Caucus

2013 Outstanding Undergraduate Scholarship Award — Rochester Institute of Technology, College of Liberal Arts

2013 Student Research Fund ($72) — Rochester Institute of Technology, College of Liberal Arts

2012 Kearse Award for Excellence in Writing ($100) — Rochester Institute of Technology, College of Liberal Arts

CONFERENCE ACTIVITY

Papers Presented

Wegman, J., DeLong, C. M., Morrison, E., Morelli, J., Rachfal, T., & **Wilcox, K. T.** (2020, November 16-20). *Visual object categorization in goldfish (Carassius auratus)* [Paper presentation]. RIT Graduate Showcase, Rochester, NY, United States. Note: Winner of Oral Presentation Award. https://youtu.be/hrgLbcJDPXo

Hong, M., **Wilcox, K. T.**, & Cheng, Y. (2020, October 7–10). *A constructed response model* [Poster presentation]. 18th Annual Society of Multivariate Experimental Psychology Graduate Student Preconference, Virtual conference.

Hong, M., **Wilcox, K. T.**, & Cheng, Y. (2020, July 13–17). *A joint modeling framework for item response and topic models* [Paper presentation]. 85th Annual Meeting of the Psychometric Society, College Park, MD, United States.

Wilcox, K. T., Jacobucci, R., & Zhang, Z. (2020, July 13–17). *Combining topic modeling and regression: Supervised topic modeling with covariates* [Invited "Spotlight Talk" paper presentation]. 85th Annual Meeting of the Psychometric Society, College Park, MD, United States.

Che, C., **Wilcox, K. T.**, & Zhang, Z. (2020, May 26–27). *Evaluation of the unsupervised latent Dirichlet allocation model though simulation* [Paper presentation]. 2nd Annual Meeting

of the International Society for Data Science and Analytics, Notre Dame, IN, United States.

Wilcox, K. T., Jacobucci, R., & Zhang, Z. (2020, May 26–27). *Modeling relationships from themes in text and covariates with an outcome: A Bayesian supervised topic model with covariates* [Paper presentation]. 2nd Annual Meeting of the International Society for Data Science and Analytics, Notre Dame, IN, United States.

DeLong, C. M., Morrison, E., Wegman, J., Morelli, J., Rachfal, T., & **Wilcox, K. T.**. (2020, April 1–4). *Visual object categorization in goldfish (Carassius auratus)* [Poster presentation]. 27th Annual International Conference on Comparative Cognition, Melbourne, FL, United States. (Conference canceled)

Ammerman, B. A., **Wilcox, K. T.**, & Jacobucci, R. (2019, November 21–24). A nuanced examination of the relationship between social connectedness and suicidal ideation. In B. A. Ammerman & R. Jacobucci (Chairs), *Utilizing text mining in clinical research: Novel applications for improving the prediction of psychological distress* [Symposium]. 53rd Annual Convention of the Association for Behavioral and Cognitive Therapies, Atlanta, GA, United States.

Wilcox, K. T., Jacobucci, R., McCloskey, M. S., & Ammerman, B. A. (2019, November 21–24). Evaluating personal narratives of interpersonal relationships via text mining to predict nonsuicidal self-injury. In B. A. Ammerman & R. Jacobucci (Chairs), *Utilizing text mining in clinical research: Novel applications for improving the prediction of psychological distress* [Symposium]. 53rd Annual Convention of the Association for Behavioral and Cognitive Therapies, Atlanta, GA, United States.

Wilcox, K. T. (2019, October 9–12). *Bayesian supervised topic modeling with covariates* [Poster presentation]. 17th Annual Society of Multivariate Experimental Psychology Graduate Student Conference, Baltimore, MD, United States.

DeLong, C. M., Morrison, E., Wegman, J., Rachfal, T., & **Wilcox, K. T.** (2019, April 10–13). *Visual perception of rotated 2D color representations of familiar 3D objects in goldfish (Carassius auratus)* [Paper presentation]. 26th Annual International Conference on Comparative Cognition, Melbourne Beach, FL, United States.

Wilcox, K. T. (2018, July 9–13). *A Bayesian hidden topic Markov model for latent linguistic structure* [Paper presentation]. 83rd Annual Meeting of the Psychometric Society, New York, NY, United States.

DeLong, C. M., Gardner, K., Rachfal, H., Morrison, E., & **Wilcox, K. T.** (2018, April 4–7). *Visual discrimination of rotated 3D objects in goldfish (Carassius auratus)* [Paper presentation]. 25th Annual International Conference on Comparative Cognition, Melbourne Beach, FL, United States.

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 4–7). *North American river otters (Lontra canadensis) use shape and color to discriminate between 2D objects* [Poster presentation]. 25th Annual International Conference on Comparative Cognition,

Melbourne Beach, FL, United States.

Fobe, I., DeLong, C. M., & **Wilcox, K. T.** (2017, December 4–8). *An exploration of rhythm perception in African penguins (Spheniscus demersus)* [Paper presentation]. 174th Meeting of the Acoustical Society of America, New Orleans, LA, United States.

DeLong, C. M., Fellner, W., Harley, H. E., Fobe, I., **Wilcox, K. T.**, Gardner, K., & Odell. K. (2017, November 9). *Visual discrimination of rotated 2D objects in a bottlenose dolphin (Tursiops truncatus) and goldfish (Carassius auratus)* [Paper presentation]. Fall Meeting of the Comparative Cognition Society 2017, Vancouver, BC, Canada.

Wilcox, K. T. (2017, April). *Text mining with a Bayesian hidden topic Markov model* [Paper presentation]. 6th Annual Joint Conference of the Upstate Chapters of the American Statistical Association, Buffalo, NY, United States.

DeLong, C. M., Fobe, I., **Wilcox, K. T.**, & O'Leary, T. (2017, April 19–22). *Visual discrimination of rotated 2D objects in goldfish (Carassius auratus)* [Paper presentation]. 24th Annual International Conference on Comparative Cognition, Melbourne Beach, FL, United States.

Wilcox, K. T. (2016, April). *An introduction to ensemble methods for machine learning* [Paper presentation]. 5th Annual Joint Conference of the Upstate Chapters of the American Statistical Association, Buffalo, NY, United States.

Wilcox, K. T., & DeLong, C. M. (2014, May 22–25). *Mindfulness meditation and relaxation differentially improve mindfulness and affect, not emotional memory* [Poster presentation]. 26th Association for Psychological Science Annual Convention, San Francisco, CA, United States.

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 presentation]. 2nd International Conference on Emerging Research Paradigms in Business and Social Sciences, Dubai, United Arab Emirates.

Wilcox, K. T., Wright, C., & DeLong, C. M. (2012, August 10). *Training North American river otters (Lontra canadensis) to discriminate among objects* [Poster presentation]. 21st Annual Rochester Institute of Technology Undergraduate Research Symposium, Rochester, NY, United States.

TEACHING EXPERIENCE

University of Notre Dame

Graduate Seminar: Quantitative Study (co-instructor, graduate course; Spring 2021)

Quantitative Methods II (teaching assistant & lab instructor, graduate course; Spring 2020)

Quantitative Methods I (teaching assistant & lab instructor, graduate course; Fall 2019)

Rochester Institute of Technology

Elements of Statistical Theory (teaching assistant, graduate course; Fall 2015, Fall 2016)

Principles of Statistical Data Mining (teaching assistant, graduate course; Spring 2017)

Statistical Software (teaching assistant, graduate course; Fall 2015)

Probability and Statistics II for Engineers (teaching assistant; Spring 2015)

Critical Mathematical Skills (instructor; Fall 2014, Fall 2015)

RESEARCH EXPERIENCE

Rochester Institute of Technology, Rochester, NY

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

SERVICE TO PROFESSION

Journal Manuscript Review

Frontiers in Psychology, section Quantitative Psychology and Measurement

Multivariate Behavioral Research

PLOS-ONE

Psychological Methods

Sessions Chaired

Regression modeling and prediction. (2020, July 13–17). 85th Annual Meeting of the Psychometric Society, College Park, MD, United States.

Applications of Statistics in Environmental Studies. (2017, April). 6th Annual Joint Conference of the Upstate Chapters of the American Statistical Association, Buffalo, NY, United States.

Society for Multivariate and Experimental Psychology   2020

    Reviewer, SMEP Graduate Student Conference

Association for Psychological Science Student Caucus   2016–2021

    Reviewer, APSSC Student Grant Competition

Fifth Annual Joint Conference of the Upstate Chapters of the American Statistical Association   2017

    Judge, Pre-College Statistical Data Analysis Competition

Fifth Annual Joint Conference of the Upstate Chapters of the American Statistical Association   2016

    Judge, Pre-College Statistical Data Analysis Competition

DEPARTMENTAL/UNIVERSITY SERVICE

UNIVERSITY OF NOTRE DAME

Student Representative for the Quantitative Area, Departmental and Quantitative Area Faculty Meetings (08/2020–present)

Quantitative Area Representative, Graduate Advisory Committee (08/2018–07/2019)

ROCHESTER INSTITUTE OF TECHNOLOGY

Discussant, "On the Five Pillars of Statistical Science: Methodology, Theory, Computation, Applications and Data", Summer Mathematics Institute (06/2016)

Student Representative, Eisenhart Award Nomination Committee (09/2012–05/2013)

Peer Mentor, First Year Enrichment Program (09/2010–05/2013)

EXTRACURRICULAR UNIVERSITY SERVICE

ROCHESTER INSTITUTE OF TECHNOLOGY

Secretary, Data Science Research Group (01/2015–05/2017)

Secretary, Psychology Student Society (03/2012–05/2013)

PROFESSIONAL MEMBERSHIPS

American Psychological Association

American Psychological Association Division 5

American Statistical Association

Association for Psychological Science

Psychometric Society