

KYLE J. LAFOLLETTE

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EDUCATION

- expected 2025 **Doctor of Philosophy, Psychology, Case Western Reserve University**, Cleveland, OH
Specialization: Affective Neuroscience
Advisor: Heath Demaree, PhD
- 2017 **Bachelor of Science, University of Michigan**, Ann Arbor, MI
Majors: Cognitive Science (Decision Sciences Track) & Biopsychology
- 2014 **Associate of Science, Oakland Community College**, Farmington Hills, MI

RESEARCH & TRAINING COURSES

- June 30th 2021 - **Neuromatch Academy**
July 23rd 2021 Computational Neuroscience Summer School
- July 29th 2019 - **University of Washington**
August 7th 2019 Mathematics of Machine Learning Summer School

PEER REVIEWED PUBLICATIONS

- LaFollette, K. J.**, & Demaree, H. A. (2022). Comparing the effects of stress on directed and random exploration. In *Proceedings of the 5th Multidisciplinary Conference on Reinforcement Learning and Decision Making*.
- LaFollette, K. J.**, Kotynski, A. E., Merner, A. R., Lim, R., Jiang, H., & Demaree, H. A. (2021). Exposure to discrete emotions influence processes of evidence accumulation in reinforcement-learning. In T. Fitch, C., Lamm, H. Leder, & K. Teßmar-Raible (Eds.), *Proceedings of the Annual Meeting of the Cognitive Science Society*, 43, 486-492.

PUBLICATIONS IN PREPARATION

- LaFollette, K. J.**, & Demaree, H. A. (Manuscript in Preparation). Algorithmic solutions to the explore-exploit dilemma under acute physiological and psychosocial stress.

LaFollette, K. J., Kotynski, A. E., Frank, D. J., Merner, A. R., Jiang, H., Macnamara, B. N., Burns, K. J., & Demaree, H. A. (Manuscript in Preparation). Decision diffusion modeling of exploration-exploitation decision-making during the presentation of neutral and emotional images.

LaFollette, K. J., Yuval, J., Melnikoff, D., & Goldenberg, A. (Manuscript in Preparation). Using machine learning to aid psychological model selection.

Goldenberg, A., **LaFollette, K. J.**, Huang, Z., Weisz, E., & Cikara, M. (Manuscript in Preparation). The proportion of Black faces in the crowd increases the probability that crowd would be evaluated as emotional.

INVITED TALKS & SEMINARS

Harvard Business School, Workshop on Stan and Bayesian Generative Models – Invited talk (June, 2022)

Harvard Business School, Goldenberg & Jordan Lab – Invited talk (October, 2021).

CONFERENCE TALKS & POSTER PRESENTATIONS

LaFollette, K. J., & Demaree, H. A. (November, 2022). *Solutions to the explore-exploit dilemma vary with perception of stress and intolerance of uncertainty*. Poster submitted to the 63rd Annual Meeting of the Psychonomic Society.

LaFollette, K. J., Weisz, E., Cikara, M., Huang, Z., & Goldenberg, A. (May, 2022). *The ratio of Black faces in the crowd is positively associated with perception of emotion*. Talk to be presented at the 2022 Annual Convocation of the Association for Psychological Science, Chicago, IL.

LaFollette, K. J. (April, 2022). *Latent risk behaviors predict model-based control*. Talk presented at the 94th Annual Conference of the Midwestern Psychological Association, Chicago, IL.

LaFollette, K. J., Kotynski, A. E., Frank, D. J., Merner, A. R., Jiang, H., Macnamara, B. N., Burns, K. J., & Demaree, H. A. (November, 2021). *Toward a reinforcement learning decision diffusion model of choice behavior in the context of incidental discrete emotion*. Poster presented at the 62nd Annual Meeting of the Psychonomic Society, Virtual.

Satterfield, B. C., Anlap, I., Esbit, S., **LaFollette, K. J.**, Lazar, M. P., & Killgore, W. D. S. (August, 2021). *Corticotropin-releasing hormone receptor 1 gene polymorphism modulates cognitive flexibility following acute stress and sleep deprivation*. Poster presented at the 2021 Military Health System Research Symposium, Virtual.

LaFollette, K. J., Satterfield, B. C., Lazar, M. P., Esbit, S., Anlap, I., & Killgore, W. D. S. (November, 2020). *Chunking of sequence memories during high-stress sleep deprivation*. Poster presented at the 61st Annual Meeting of the Psychonomic Society, Virtual.

LaFollette, K. J., Satterfield, B. C., Lazar, M. P., Esbit, S., Anlap, I., & Killgore, W. D. S. (August, 2020). *Emotion regulation during sleep deprivation and repeated physiological stress: Implications for motor skill learning and production*. Poster presented at the 34th Annual SLEEP Meeting, Virtual.

LaFollette, K. J., Satterfield, B. C., Lazar, M. P., & Killgore, W. D. S. (October, 2019). *Disentangling the effects of subjective task load and performance on neuroendocrine stress response*. Poster presented at the 49th Annual Society for Neuroscience Meeting, Chicago, IL.

- Strong, M., Esbit, S., **LaFollette, K. J.**, Dailey, N. S., & Killgore, W. D. S. (August, 2019). *Big five personality traits and how they relate to self-perceived invincibility*. Poster presented at the 2019 Military Health System Research Symposium, Kissimmee, FL.
- LaFollette, K. J.**, Satterfield, B. C., Esbit, S., Lazar, M. P., & Killgore, W. D. S. (August 2019). *Inadequate sleep quality and duration predicts disinhibited shooting on a “shoot/no shoot” task*. Poster presented at the 2019 Military Health System Research Symposium, Kissimmee, FL.
- LaFollette, K. J.**, Satterfield, B. C., Esbit, S., Lazar, M. P., & Killgore, W. D. S. (August 2019). *Self-perceived invincibility is associated with greater cognitive flexibility*. Poster presented at the 2019 Military Health System Research Symposium, Kissimmee, FL.
- LaFollette, K. J.**, Satterfield, B. C., Esbit, S., Lazar, M. P., Grandner, M. A., & Killgore, W. D. S. (June, 2019) *Negative mood and poor sleep are associated with altered moral reasoning under stress*. Poster presented at the 33rd Annual SLEEP Meeting, San Antonio, TX.
- LaFollette, K. J.**, Satterfield, B. C., Esbit, S., Lazar, M. P., Grandner, M. A., & Killgore, W. D. S. (June, 2019) *The effects of prior at-home sleep duration on reversal-learning during a “shoot/no-shoot” task*. Talk presented at the 33rd Annual SLEEP Meeting, San Antonio, TX.
- Burns, A., Ozcan, M., Shepard, K. C., **LaFollette, K. J.**, Alkozei, A., Grandner, M. A., & Killgore, W. D. S. (June, 2019) *The association between PTSD severity and insomnia is mediated by nightmares*. Poster presented at the 33rd Annual SLEEP Meeting, San Antonio, TX.
- LaFollette, K. J.**, Satterfield, B. C., Lazar, M. P., & Killgore, W. D. S. (February, 2019) *Stay negative?: Positive affect is associated with increased psychosocial stress reactivity*. Poster presented at the International Neuropsychological Society 47th Annual Meeting, New York, NY.
- LaFollette, K. J.**, Satterfield, B. C., Lazar, M. P., & Killgore, W. D. S. (February, 2019) *Predicting psychosocial stress reactivity from ability and trait-based emotional intelligence*. Poster presented at the International Neuropsychological Society 47th Annual Meeting, New York, NY.
- Satterfield, B. C., **LaFollette, K. J.**, Lazar, M. P., & Killgore, W. D. S. (February, 2019) *Prolonged psychosocial stress impairs cognitive flexibility*. Poster presented at the International Neuropsychological Society 47th Annual Meeting, New York, NY.
- Esbit, S., Satterfield, B. C., **LaFollette, K. J.**, Botello, R., Alkozei, A., & Killgore, W. D. S. (February, 2019) *High self-perceived adroitness: An altered perception of reality during sleep deprivation*. Poster presented at the International Neuropsychological Society 47th Annual Meeting, New York, NY.
- LaFollette, K. J.**, Satterfield, B. C., Lazar, M. P., & Killgore, W. D. S. (November, 2018) *Attenuated model-based decision making is predictive of increased psychosocial stress reactivity*. Poster presented at the Society for Judgment and Decision Making 39th Annual Meeting, New Orleans, LA.
- LaFollette, K. J.**, Ibrahim, A., & Shah, P. (April, 2016). *The anxious math student: An exploration of the motivational predictors of math anxiety*. Poster presented at the 8th Annual California Cognitive Science Conference, University of California, Berkeley, CA.
- LaFollette, K. J.**, Cawley, A., & Mesa, V. (April, 2015). *Inquiry-based learning in mathematics classrooms: Finding solutions to common concerns*. Poster presented at the Annual UROP Spring Research Symposium, University of Michigan, Ann Arbor, MI.
- LaFollette, K. J.**, Cawley, A., & Mesa, V. (April, 2015). *Inquiry-based learning in mathematics classrooms: Faculty concerns and solutions for student presentations*. Talk presented at the Annual MichMATYC Conference, Benton Harbor, MI.

RESEARCH EXPERIENCE

- 2020 - Present **Graduate Student Researcher** | Affective Neuroscience Lab
PI: Heath Demaree, PhD | Case Western Reserve University, Cleveland, OH
- 2020 - Present **Graduate Student Researcher** | Skill Learning and Performance Lab
PI: Brooke Macnamara, PhD | Case Western Reserve University, Cleveland, OH
- 2017 - 2020 **Research Technician** | Social, Cognitive and Affective Neuroscience Lab
PI: William Killgore, PhD | University of Arizona, Tucson, AZ
- 2019 - 2020 **Neuroscience Research Assistant** | Stanford Cognitive and Systems Neuroscience Lab
PI: Vinod Menon, PhD | Stanford University, Palo Alto, CA
- 2016 - 2017 **Undergraduate Research Assistant** | Cognition, Control and Action Lab
PI: Taraz Lee, PhD | University of Michigan, Ann Arbor, MI
- 2015 - 2016 **Undergraduate Research Assistant** | Basic and Applied Cognition Lab
PI: Priti Shah, PhD | University of Michigan, Ann Arbor, MI
- 2014 - 2015 **Undergraduate Research Assistant** | Teach with Inquiry-Based Learning Project
PI: Vilma Mesa, PhD | University of Michigan, Ann Arbor, MI

TEACHING

- Fall 2021 **Quantitative Methods in Psychology** | Case Western Reserve University
Teaching Assistant

SKILLS

Programming | Python, Matlab, Javascript, R, Stan, LaTeX, bash shell scripting, VBA, SLURM cluster computing, cron, HTML, PHP, CSS

Software | FSL, FreeSurfer, PsychoPy, E-Prime, SPSS, RStudio, REDCap, Qualtrics, Adobe Experience Manager

Physiological Measures | Electrocardiography, magnetic resonance imaging, magnetic resonance spectroscopy, heart rate variability, electrodermal activity, salivary cortisol testing

Statistics | Frequentist and Bayesian hypothesis testing, linear and nonlinear modeling, multivariate analysis, visualization, machine learning, hierarchical Bayesian modeling, Markov chain Monte Carlo

PROFESSIONAL MEMBERSHIPS

since 2020 **Association for Psychological Science** | Student Member
since 2020 **Psychonomic Society** | Student Member
since 2020 **Cognitive Science Society** | Student Member
since 2020 **Society for the Improvement of Psychological Science** | Member
since 2019 **Society for Neuroscience** | Student Member
since 2018 **Society for Judgment and Decision-Making** | Member