

# Kianté A. Fernandez, M.S. M.A.

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## EDUCATION

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### UNIVERSITY OF CALIFORNIA, LOS ANGELES

Ph.D. in Computational Cognition, Minor Quantitative Psychology

Expected Graduation: 2027

### THE OHIO STATE UNIVERSITY

Master of Art in Decision Psychology, Minor Statistics

June 2023

### DREXEL UNIVERSITY

Master of Science in Psychology, Minor Biostatistics

June 2021

### SHIPPENSBURG UNIVERSITY

Bachelor of Arts in Political Science

May 2017

## RESEARCH EXPERIENCE

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### Graduate Student Researcher, Krajbich Neuroeconomics lab, University of California, Los Angeles

August 2021 - present

Supervisor: Ian Krajbich, Ph.D.

### Visiting Researcher, Amsterdam Mathematical Psychology Laboratory, University of Amsterdam

Summer 2023

Supervisor: Michael D. Nunez, Ph.D.

### Graduate Research Assistant, Cognitive Neuroengineering and Well-Being Lab, Drexel University

August 2019 – September 2021

Supervisor: John D. Medaglia, Ph.D.

### Graduate Research Assistant, Chrysikou Cognitive Neuroscience Lab, Drexel University

August 2019 – September 2021

Supervisor: Evangelia Chrysikou, Ph.D.

### Statistical Consultant, Osipowicz Research Group, Drexel University

September 2020 – February 2021

Supervisor: Karol Osipowicz, Ph.D.

## PUBLICATIONS

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- Fernandez, Kianté A., Hamilton, Roy, Cabrera, Laura, and Medaglia, John D. (2022). “Context-Dependent Risk and Benefit Sensitivity Mediate Judgments About Cognitive Enhancement”. In: *AJOB Neuroscience* 13.1, pp. 73–77. DOI: [10.1080/21507740.2021.2001077](https://doi.org/10.1080/21507740.2021.2001077).
- Medaglia, John D. and Fernandez, Kianté A. (2022). “The ‘Crisis’ Crisis in Psychology”. In: *Behavioral and Brain Sciences* 45. DOI: [10.1017/S0140525X21000364](https://doi.org/10.1017/S0140525X21000364).
- Nunez, Michael D., Fernandez, Kianté A., Srinivasan, Ramesh, and Vandekerckhove, Joachim (2024). “A Tutorial on Fitting Joint Models of M/EEG and Behavior to Understand Cognition”. In: *Behavior Research Methods*. DOI: [10.3758/s13428-023-02331-x](https://doi.org/10.3758/s13428-023-02331-x).
- Fernandez, Kianté A., Erickson, Brian A., Kable, Joseph W., Hamilton, Roy H., and Medaglia, John D. (2025). “Evaluating Risk and Benefit Sensitivity for Cognitive Treatments”. In: *Journal of Cognitive Enhancement*. ISSN: 2509-3304. DOI: [10.1007/s41465-025-00319-3](https://doi.org/10.1007/s41465-025-00319-3).

## MANUSCRIPTS

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- Fernandez, Kianté, Callaway, Frederick, Karamarkar, Uma R., and Krajbich, Ian (in prep). “Multi-Response: Beyond Single Response Decisions in Simple Choice”. In: *Manuscript in preparation*.
- Fernandez, Kianté, Erani, Fareshte, and Medaglia, John D. (in prep). “Diffusion Decision Modeling of Response Times Reflect Cognitive Fatigue in Patients with Multiple Sclerosis”. In: *Manuscript in preparation*.
- Fernandez, Kianté, Fengler, Alexander, and Urai, Anne E. (in prep). “Choice history biases evidence accumulation in humans and mice”. In: *Manuscript in preparation*.
- Fernandez, Kianté, Karamarkar, Uma R., and Krajbich, Ian (in review). “Preference centrality, but not set similarity, predicts choices between sets”. In: *Manuscript under review*. Preprint available: <https://doi.org/10.31234/osf.io/3fahj>.
- Fernandez, Kianté, Makowski, Dominique, and Fisher, Christopher (in review). “SequentialSamplingModels.jl: Simulating and Evaluating Cognitive Models of Response Times in Julia”. In: *Manuscript under review*. Preprint available: <https://arxiv.org/abs/2411.06631>.
- Fernandez, Kianté, Nunez, Michael D., and Krajbich, Ian (in prep). “Evidence accumulation across decision domains”. In: *Manuscript in preparation*.
- Kim, Brian, Fernandez, Kianté, and Medaglia, John D. (in prep). “The Dynamics of Neuroethical Decisions Depend on Psychological Traits”. In: *Manuscript in preparation*.
- Krajbich, Ian, Fernandez, Kianté, and Yang, Xiaozhi (in review). “Decomposing economic choices with drift-diffusion models”. In: *Neuroeconomics: Core Topics and Current Directions*. Preprint available: <https://doi.org/10.31234/osf.io/4wsrp>.
- Shevlin, Blair R. K., Fernandez, Kianté, Ratcliff, Roger, and Krajbich, Ian (in prep). “Fitting one-shot choices with diffusion models”. In: *Manuscript in preparation*.

# CONFERENCE PRESENTATIONS & PROCEEDINGS

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- Fernandez, K. A., Nunez, D. M., & Krajbich, I. Characterizing Evidence Across Simple Choice Tasks  
*Poster at the Society for Neuroeconomics 2024 Meeting*  
*Poster at 2024 UCLA Brain Research Institute Neuroscience Retreat*
- Fernandez, K. A., Callaway, F., Karmarkar, U. R., & Krajbich, I. Cognitive models of multi-response choice  
*Talk at Society for Mathematical Psychology Meeting 2024,*  
*Poster at Los Angeles Experimental Economics (LAX) Workshop,*  
*Talk at UCLA Cognitive Forum Data blitz,*  
*Poster FestSchrift in Honor of Colin Camerer*
- Urai, A. E., Gunes Z., Fernandez, K. A., & Fengler A. Modelling History-Dependent Evidence Accumulation Across Species  
*Proceedings of the Annual Meeting of the Cognitive Science Society 2024*
- Fernandez, K. A., Makowski, D., & Fisher, C. Simulating Cognitive Models of Human Decision-Making in Julia  
*Talk at the JuliaCon 2024*
- Fernandez, K. A., Karmarkar, U. R., & Krajbich, I. The Sum or the Parts? Rethinking Similarity in Preference-based Set Selection  
*Talk at the West Coast Neuroeconomics Mini-Symposium*  
*Talk at the 59th Edwards Bayesian Research Conference*
- Fernandez, K. A., Karmarkar, U. R., & Krajbich, I. Uncovering the Role of Structural Properties in Food Association Networks.  
*Poster at the Society for Judgment and Decision Making 2023 Meeting,*  
*Poster at the Society for Neuroeconomics 2023 Meeting,*  
*Poster at the Consumer Neuroscience Symposium 2023,*  
*Poster at the Interdisciplinary Symposium on Decision Neuroscience 2023*  
*Poster at the Decision Science Collaborative Spring Forum 2023*
- Fernandez, K. A., Shevlin, B. R. K., Ratcliff, R., & Krajbich, I. Exploring the Feasibility of Across-Trial Variability in Boundary Separation.  
*Poster at Society for Mathematical Psychology Meeting 2023*
- Fernandez, K. A., Erani, F., & Medaglia, J. D. Using Diffusion Models to Understand Cognitive Deficits in People with Multiple Sclerosis  
*Poster at Computational Psychiatry Conference 2023*  
*Poster accepted at Society for Medical Decision Making North American Annual Meeting 2022*
- Fernandez, K. A., Nunez, D. M., & Krajbich, I. Using Neurocognitive Mediation Analysis to Investigate Spectral Dynamics of Evidence Accumulation Across Domains.  
*Poster at the Society for Neuroeconomics 2022 Meeting*
- Fernandez, K. A., & Krajbich, I. EEG Dynamics Underlying Mental Representations Distinguish Classes of Decision-Making Tasks.  
*Poster at the 6th annual European Summer School on Computational and Mathematical Modeling of Cognition*
- Fernandez, K. A., Erickson, B. A., Biney, B., Kable, W. J., Hamilton, R. H., & Medaglia, J. D. Prospect Theory and Judgments About Cognitive Repair.  
*Poster at the International Neuroethics Society 2021 Meeting*
- Fernandez, K. A., & Medaglia, J. D. Explaining Individual Differences in Risk & Benefit Sensitivity for Neuroethical Judgments: Moral Intuition, Religious Activity, and Political Orientation.  
*Talk at the Association for Psychological Science 2021 Convention*

## INVITED TALKS

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- *Leiden University; Cognitive Psychology Group*
- *University of California, Berkeley; Shenhav Lab*
- *Icahn School of Medicine at Mount Sinai; Center for Computational Psychiatry*
- *University of Parma; The Italian Network of Computational Psychiatry Conference*
- *University of Hamburg; Cognitive Modelling & Decision Neuroscience research colloquium*

## FUNDING

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- 2024 MathPsych WoMP-PRIME Professional Development Travel Award (\$500)
- 2024 JuliaCon Speaker Travel Award (\$1500)
- 2024 Scientific Research Network on Decision Neuroscience and Aging Travel Award (\$500)
- 2024 Graduate Summer Research Mentorship Award, UCLA (\$18000)
- 2023 SJDM J. Frank Yates scholarship (\$500)
- 2023 Decision Sciences Collaborative Research Grant (\$3000)
- 2022 Decision Sciences Collaborative Research Grant (\$3000)
- Graduate Enrichment Fellowship, The Ohio State University
- University Fellowship, The Ohio State University
- Society for Medical Decision-Making Scholarship
- Dean's Fellowship, Drexel University
- Board of Governors Full Tuition Scholarship, Shippensburg University

## SOFTWARE

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<https://github.com/kiante-fernandez/Rhddmjags> - R repository for example Hierarchical Drift Diffusion Model (HDDM) code using JAGS and Stan

## TEACHING EXPERIENCE

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### Teaching Assistant

Drexel University

September 2019 - June 2021

- Undergraduate General Psychology  
Supervisor: Douglas L. Chute, Ph.D.
- Undergraduate Experimental Psychology  
Supervisor: Karol Osipowicz, Ph.D.
- Graduate Data Analysis in Psychology I, II, & III  
Supervisor: Karol Osipowicz, Ph.D.

## PROFESSIONAL DEVELOPMENT

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- Scientific Research Network on Decision Neuroscience and Aging Workshop
- Fourteenth annual ERP Boot Camp by Steve Luck & Emily Kappenman
- Eighth annual Model-Based Neuroscience Summer School
- Summer school on Analyzing Neural Time Series taught by Mike X Cohen
- Sixth annual European Summer School on Computational and Mathematical Modeling of Cognition
- Third Summer School on the Cognitive Foundations of Economic Behavior
- Tools for theory: Improving the theoretical foundations of psychological science workshop
- Neuromatch Academy 2021 Computational Neuroscience Track

## AD HOC REVIEWING

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- Cognitive, Affective, & Behavioral Neuroscience
- Cognitive Science Society
- Journal of Behavioral Decision Making

## SOCIETY AFFILIATIONS

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- Society for the Improvement of Psychological Science (SIPS): Executive Board Member, Ex-Officio
- Association for Psychological Science
- Society for Judgement and Decision Making
- Society for Medical Decision Making
- Society for Mathematical Psychology
- Society for Neuroeconomics

## SKILLS

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### Programming

- R (advanced knowledge: base, tidyverse, public Github scripts)
- Julia (working knowledge: Turing.jl, SequentialSamplingModels.jl (contributor))
- Python (working knowledge: HDDM, HSSM, NetworkX, MNE)
- MATLAB (working knowledge: EEGLAB, FieldTrip, Psychtoolbox)
- Stan, JAGS, SAS, FORTRAN, git, JavaScript, HTML, CSS (website maintenance and building experiments)

**Experience with** EyeLink 1000, EEG administration, E-prime, SPSS, TMS administration, tDCS administration, REDCap, Canva Graphic Design, Qualtrics XM, Markdown, GitHub, LaTeX, JsPsych, Quarto, Prolific