

# Michael D. Nunez, Ph.D.

Assistant Professor (Universitair docent 2)  
Psychology Department: Psychological Methods Group  
University of Amsterdam (Universiteit van Amsterdam)

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<https://scholar.google.com/citations?user=vta5mnwAAAAJ>

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## EDUCATION

*University of California, Irvine*

2017 - Ph.D. in Psychology w/ Concentration in Cognitive Neuroscience

Cognitive Sciences Department

2017 - M.S. in Cognitive Neuroscience

*University of California, Irvine*

2015 - M.S. in Statistics

Statistics Department

*Tulane University, New Orleans, LA*

2010 - B.S. in Mathematics and Economics (Double Major, cum laude), Minor in Psychology

Mathematics Department

## EMPLOYMENT HISTORY

*Assistant Professor (Universitair docent 2)*

July 2021 - Present

*Psychological Methods Group*

*Department of Psychology*

*University of Amsterdam (Universiteit van Amsterdam)*

I develop my own research program on neurocognitive modeling, decision-making and other topics. I also teach graduate and undergraduate courses, as well as mentor Masters and Bachelor students.

*Assistant Project Scientist, Cognition and Individual Differences Lab, Human Neuroscience Lab*

Aug 2020 - June 2021

*PIs: Prof. Joachim Vandekerckhove, Prof. Ramesh Srinivasan*

*Department of Cognitive Sciences*

*University of California, Irvine*

I developed and found parameter estimates of neurocognitive models using human EEG and behavioral data.

*Assistant Project Scientist, Fuster Laboratory of Cognitive Neuroscience (FLCN)*

Feb 2019 - July 2020

*PI: Prof. Michele A. Basso*

*Department of Psychiatry and Biobehavioral Sciences*

*University of California, Los Angeles (UCLA)*

I studied decision making from recordings of neurons, intracranial data, and behavioral data in Rhesus macaques.

*Assistant Project Scientist, Cognition and Individual Differences Lab, Human Neuroscience Lab*

May 2018 - Feb 2019

*PIs: Prof. Joachim Vandekerckhove, Prof. Ramesh Srinivasan*

*Department of Cognitive Sciences*

*University of California, Irvine*

I sought to estimate unidentified cognitive models of human decision making with experimental behavior and scalp-recorded EEG.

*Associate Specialist, Laboratory of Computational and Translational Neuroscience*

Sep 2017 - May 2018

*PI: Prof. Beth A. Lopour*

*Department of Biomedical Engineering*

*University of California, Irvine*

I classified and statistically modeled markers of epilepsy in human patients using electric potentials recorded directly from the cortex.

*Graduate Student Researcher, Human Neuroscience Lab, Cognition and Individual Differences Lab* Aug 2012 - Aug 2017  
*PIs: Prof. Ramesh Srinivasan, Prof. Joachim Vandekerckhove*  
*Department of Cognitive Sciences*  
*University of California, Irvine*

I tested the veracity of combined electrocortical and cognitive models of human visual attention and decision-making. This was typically performed in a hierarchical Bayesian statistical framework with statistical models of EEG and human behavior.

*Teaching Assistant, Cognitive Sciences Department* Sep 2012 - Dec 2016  
*University of California, Irvine*

I was responsible each academic quarter to fulfill the duties of a teaching assistant as needed by the instructor of the course. I held discussion courses for undergraduates each week as well as provided office hours and graded papers, homework, and exams.

*Research Assistant, Psychology Department* 2011 - 2012  
*PI: Prof. Edward Golob*  
*Tulane University, New Orleans, LA*

I sought to advance understanding of normal cognitive aging by exploring condition differences in auditory EEG Event Related Potentials obtained from Independent Component Analysis (ICA).

## PROFESSIONAL SKILLS

- **Modeling:**
  - Neurocognitive models / Model-based Cognitive Neuroscience (mathematical cognitive models of brain and behavior)
  - Mathematical Psychology (mathematical cognitive models of human and Rhesus macaque behavior)
  - Computational Neuroscience (statistical models of scalp and intracranial EEG, LFPs and population activity)
- **Statistics:**
  - Bayesian model fitting (MCMC, Amortized Bayesian Inference, Bayesian model comparison, Bayes Factor calculations)
  - Hierarchical Bayesian models and Bayesian structural equation modeling
  - Classical (Frequentist) statistical methods
  - Machine Learning, Neural Networks, Time Series, etc.
- **Neuroimaging:**
  - EEG (recording with EGI and ANT hardware and software, OpenVibe, ICA artifact correction, ERPs, SSVEPs, source analysis, Brain-Computer Interfaces, custom Python and MATLAB functions, EEGLAB, etc.)
  - ECoG / iEEG (analysis of intracranial recordings from epileptic patients using custom Python and MATLAB functions)
  - Single unit electrophysiology (implantation of depth electrodes, finding of receptive fields, electrical noise reduction)
  - fMRI (operating the MRI machine, nibabel, Nilearn, SPM, analyzing structural MRI images, BrainSight)
  - Brain-Computer Interfaces / Adaptive Neurotechnologies (OpenVibe, Visual Evoked Potentials, SSVEPs, familiarity with BCI hardware, BCI start-up company involvement)
  - Eye tracking (infrared eye tracking of pupil and infrared reflection, eye tracking in monkeys using implanted eye coils)
- **Additional Mathematics:** Signal Processing, Linear Algebra, Multivariate Calculus, etc.
- **Programming:**
  - Python (advanced knowledge: Numpy, Scipy, Tensorflow, etc. public Github scripts)
  - R (advanced knowledge: base, dplyr, etc., built MCMC samplers, public Github scripts)
  - MATLAB (advanced knowledge: public Github repositories, experimental designs)
  - C++ (working knowledge: building experimental stimuli)
  - Stan, JAGS, Github, git, Linux Bash, html (lab website maintenance), Julia (learning), REX/VEX
- **Experimental design:** Design and implementation for human participants and Rhesus macaques
- **Teaching:** Teaching of undergraduate and graduate students in statistics, programming, experimental design, scientific writing, etc. Netherlands University Teaching Qualification (BKO) course ongoing.
- **Mentorship:** Mentoring of undergraduate, graduate students, and laboratory assistants from diverse backgrounds
- **Data analysis:** Preparing and organizing large data sets, dimension reduction, statistical modeling, etc.
- **Open science:** Sharing of code and data with github.com and osf.io, preregistration of scientific experiments, sharing of open-access papers, conference posters, etc. on preprint and postprint websites
- **Animal lab / Veterinary care:** Hands-on experience caring for, cleaning implants of, training, and building experiments for Rhesus macaques. Preparing and recording neural data from the cortex and midbrain in Rhesus macaques using depth electrodes.

## PUBLICATIONS

- **Nunez, M. D.**, Fernandez, K., Srinivasan, R., & Vandekerckhove, J. (2023). [A tutorial on fitting joint models of M/EEG and behavior to understand cognition](#). PsyArXiv. doi: 10.31234/osf.io/vf6t5
- Ghaderi-Kangavari, A., Rad, J. A., **Nunez, M. D.** (2023). [A general integrative neurocognitive modeling framework to jointly describe EEG and decision-making on single trials](#). *Computational Brain & Behavior*, 6, 317–376. doi: 10.1007/s42113-023-00167-4
- Ghaderi-Kangavari, A., Parand, K., Ebrahimpour, R., **Nunez, M. D.**, Rad, J. A. (2023). [How spatial attention affects the decision process: looking through the lens of Bayesian hierarchical diffusion model & EEG analysis](#). *Journal of Cognitive Psychology*, 35:4, 456-479. doi: 10.1080/20445911.2023.2187714
- Ghaderi-Kangavari, A., Rad, J. A., Parand, K., **Nunez, M. D.** (2022). [Neuro-cognitive models of single-trial EEG measures describe latent effects of spatial attention during perceptual decision making](#). *Journal of Mathematical Psychology*, 111, 102725. doi: 10.1016/j.jmp.2022.102725
- **Nunez, M. D.**, Charupanit, K., Sen-Gupta, I., Lopour, B. A., Lin, J. J. (2022). [Beyond rates: Time-varying dynamics of high frequency oscillations as a biomarker of the seizure onset zone](#). *Journal of Neural Engineering*. 19, 016034. doi: 10.1088/1741-2552/ac520f
- Jun, E. J.\*, Bautista, A. R.\*, **Nunez, M. D.\***, Allen, D. C., Tak, J. H., Alvarez, E., Basso, M. A. (2021). [Causal role for the primate superior colliculus in the computation of evidence for perceptual decisions](#). *Nature Neuroscience*, 24, 1121–1131. doi: 10.1038/s41593-021-00878-6 \*Contributed Equally
- Lui, K. K., **Nunez, M. D.**, Cassidy, J. M., Vandekerckhove, J., Cramer, S. C., & Srinivasan, R. (2021). [Timing of readiness potentials reflect a decision-making process in the human brain](#). *Computational Brain & Behavior*, 4, 264–283 (2021). doi: 10.1007/s42113-020-00097-5
- **Nunez, M. D.**, Gosai, A., Vandekerckhove, J., & Srinivasan, R. (2019). [The latency of a visual evoked potential tracks the onset of decision making](#). *NeuroImage*, doi: 10.1016/j.neuroimage.2019.04.052.
- Nunez, P. L., **Nunez, M. D.**, & Srinivasan, R. (2019). [Multi-Scale Neural Sources of EEG: Genuine, Equivalent, and Representative. A Tutorial Review](#). *Brain Topography*, 32, 193–214. doi: 10.1007/s10548-019-00701-3
- Schubert, A. L., **Nunez, M. D.**, Hagemann, D., & Vandekerckhove, J. (2019). [Individual differences in cortical processing speed predict cognitive abilities: A model-based cognitive neuroscience account](#). *Computational Brain & Behavior*, 2, 64–84. doi: 10.1007/s42113-018-0021-5
- Bridwell, D. A., Cavanagh, J. F., Collins, A. G., **Nunez, M. D.**, Srinivasan, R., Stober, S., & Calhoun, V. D. (2018). [Moving Beyond ERP Components: A Selective Review of Approaches to Integrate EEG and Behavior](#). *Frontiers in Human Neuroscience*, 12, 106. doi: 10.3389/fnhum.2018.00106
- **Nunez, M. D.**, Vandekerckhove, J., & Srinivasan, R. (2017). [How attention influences perceptual decision making: Single-trial EEG correlates of drift-diffusion model parameters](#). *Journal of Mathematical Psychology*. 76:B, (pp. 117-130), doi: 10.1016/j.jmp.2016.03.003
- **Nunez, M. D.** (2017). [Refining understanding of human decision making by testing integrated neurocognitive models of EEG, choice and reaction time](#) (Doctoral dissertation, UC Irvine).
- **Nunez, M. D.**, Nunez, P. L., & Srinivasan, R. (2016) [Electroencephalography \(EEG\), neurophysics, experimental methods, and signal processing](#). In Ombao, H., Linquist, M., Thompson, W. & Aston, J. (Eds.) *Handbook of Neuroimaging Data Analysis* (pp. 175-197), Chapman & Hall/CRC. Advance online publication. doi: 10.13140/rg.2.2.12706.63687
- **Nunez, M. D.**, Srinivasan, R. & Vandekerckhove, J. (2015). [Individual differences in attention influence perceptual decision making](#). *Frontiers in Psychology*. 8:18. doi: 10.3389/fpsyg.2015.00018

## CONFERENCE PUBLICATIONS

- Sun, Q. J., Vo, K., Lui, K., **Nunez, M. D.**, Vandekerckhove, J., & Srinivasan, R. (2022) [Decision SincNet: Neurocognitive models of decision making that predict cognitive processes from neural signals](#). International Joint Conference on Neural Networks (IJCNN) Proceedings 2022. doi: 10.48550/arXiv.2208.02845
- **Nunez, M. D.**, Gosai, A., Vandekerckhove, J. & Srinivasan, R. (2017). [EEG measures of neural processing speed reflect human visual encoding time](#). Conference on Cognitive Computational Neuroscience. New York, New York. September 2017.
- Charupanit, K., **Nunez, M. D.**, Bernardo, D., Bebin, E. M., Krueger, D. Northrup, H., Sahin, M., Wu, J. Y., & Lopour, B. A. (2018). [Automated Detection of High Frequency Oscillations in Human Scalp Electroencephalogram](#). International Conference of the IEEE Engineering in Medicine and Biological Society. Honolulu, Hawaii. pp. 3116-3119, doi: 10.1109/EMBC.2018.8513033.

## CONFERENCE PRESENTATIONS / INVITED TALKS

- **Nunez, M.D.** Pinier, C., Ghaderi-Kangavari, A. [When does evidence accumulation begin after a visual stimulus? Evidence from neurocognitive modeling of EEG and behavior](#). Presented at the Society for Mathematical Psychology. University of

Amsterdam, Netherlands July 2023.

- **Nunez, M.D.** Joint modeling of EEG and behavior to understand individual differences in cognition, March 2023. Keynote speaker at Neurocognitive Psychometrics meeting at Heidelberg University.
- **Nunez, M.D.** Seeking a cognitive understanding of EEG/ERP measures during decision making by fitting novel neurocognitive models to data, February 2023. Invited talk given to the COBRA group at Utrecht University.
- **Nunez, M.D.** Building models of human EEG and behavior to understand decision-making processes, October 2022. Given to Masters students and faculty members at the University of Mainz.
- **Nunez, M.D.** Building mathematical models of human brain activity and human behaviour to understand human cognition. Cognito Talks, April 2022. Annual public facing talks organized by UvA Brain & Cognition Masters students.
- **Nunez, M.D.** [Developing neurocognitive models of joint EEG and behavioural data during perceptual decision-making](#). Presented at the Virtual Neuromatch 4.0 Conference, November 2021.
- **Nunez, M. D.,** Srinivasan, R., Vandekerckhove, J. [Recovering parameters of joint models of human EEG and behavior during decision making](#). Presented at the Virtual Meeting of the Society for Mathematical Psychology, July 2021.
- **Nunez, M. D.** Integrative cognitive models of human EEG and behavior during perceptual decision making: Are they useful? Presented to the Integrative model-based cognitive neuroscience research unit at the University of Amsterdam, the Netherlands.
- **Nunez, M. D.,** Srinivasan, R., Vandekerckhove, J. [Joint computational modeling of human EEG and behavior reveal individual differences in cognition during perceptual decision making](#). Presented at the Australasian Mathematical Psychology Conference, February 2021.
- **Nunez, M. D.,** Charupanit, K., Sen-Gupta, Lin, J. J., Lopour, B. A. [Classification of sleep stages with high frequency oscillations](#). Presented at the Virtual Meeting of the Society for Mathematical Psychology, July 2020.
- **Nunez, M. D.** [Accurate time measurement of processing stages during simple human decision making](#). Presented at the Society for Mathematical Psychology. University of Wisconsin, Madison, WI, July 2018.
- **Nunez, M. D.** Best practices for navigating through the noise in EEG analysis. Presented at the Army Research Lab. Los Angeles, CA, June 2018.
- **Nunez, M. D.,** Srinivasan, R. & Vandekerckhove, J. Model-based cognitive neuroscience for the chronometry of simple human decision making. Presented at the Society for Mathematical Psychology. University of Warwick, England, UK July 2017.
- **Nunez, M. D.,** Srinivasan, R. & Vandekerckhove, J. Integrated models of both cognition and electrocortical activity predict human decision making. Presented at the Society for Mathematical Psychology. New Brunswick, NJ, August 2016.
- **Nunez, M. D.** An integrated neurocognitive model to inform targeted restoration of patient decision making. Presented at the Summer Course in Adaptive Neurotechnologies. Albany, NY, July 2016.
- **Nunez, M. D.,** Srinivasan, R. & Vandekerckhove, J. Informing cognitive models of visual decision making with EEG measures of attention. Presented at the Australian Mathematical Psychology Conference. Hobart, TAS, Australia, February 2016.
- **Nunez, M. D.,** Srinivasan, R. & Vandekerckhove, J. Integrating EEG with cognitive modeling to explain individual differences in perceptual decision making. Presented at the Luce Graduate Student Conference. Irvine, CA, May 2014.

#### CO-AUTHORED CONFERENCE PRESENTATIONS

- Ghaderi-Kangavari, A., Rad, J. A., **Nunez, M. D.** [Integrative neurocognitive approaches to understanding cognition through simultaneous analysis of EEG and behavioral data on single trials](#). Presented at the Society for Mathematical Psychology. University of Amsterdam, Netherlands July 2023.
- Ghaderi-Kangavari, A., Rad, J. A., **Nunez, M. D.** [Novel neuro-cognitive models can explore spatial attention's effect on perceptual decision making](#). Presented at the Virtual Meeting of the Society for Mathematical Psychology, July 2022.
- Vandekerckhove, J., **Nunez, M. D.,** Baribault, B., & Srinivasan, R. Joint models for behavioral and neural data. Presented at the Annual Meeting of the Society for Mathematical Psychology, Quebec City, Canada, July 2014.
- Vandekerckhove, J., **Nunez, M. D.,** Baribault, B., & Srinivasan, R. Latent variable methods for data fusion. Presented at the Annual Summer Interdisciplinary Conference, Moab, UT, June 2014.

#### CONFERENCE POSTERS

- Özsezer, P., van der Maas, H., **Nunez, M. D.** [Cascading transitions in multistable perception and cognition](#). Presented at the Society for Mathematical Psychology. University of Amsterdam, Netherlands July 2023.
- Volz, L., Matzke, D., **Nunez, M. D.,** Heathcote, A. [Comparing Amortized to MCMC-based Bayesian Inference for Cognitive Models of the Stop-Signal Paradigm](#). Presented at the Society for Mathematical Psychology. University of Amsterdam, Netherlands July 2023.
- Pinier, C., **Nunez, M. D.** [Exploration of a potential relationship between the N200 peak-latency and visual encoding time](#). Presented at the Meeting of the European Mathematical Psychology Group 2022 in Trento, Italy.

- **Nunez, M. D.**, Tisby, M. K., Lui, K. K., Vandekerckhove, J., Srinivasan, R. [A macro-level perspective on evidence accumulation during decision making](#). Presented at the Society for Neuroscience Global Connectome Virtual Event, January 2021.
- Sun, Q. J., **Nunez, M. D.**, Vandekerckhove, J., & Srinivasan, R. [Using interpretable convolutional neural network on EEG to predict trial-level response time in perceptual decision making](#). Presented at the Virtual Society for Neuroscience 2021 meeting.
- **Nunez, M. D.**, Kapre, K., Grimaldi, P., Hakwan, L., Basso, M. A. Prefrontal cortex neuronal ensemble activity encodes confidence. Presented at the Summer School for Primate Cognitive Neuroscience. Bad Bevensen, Germany, August 2019.
- **Nunez, M. D.**, Charupanit, K., Lin, J. J., Lopour, B. A. [Temporal dynamics of high frequency oscillations at slow and fast time scales in patients with epilepsy](#). Presented at the American Epilepsy Society. New Orleans, LA, December 2018.
- **Nunez, M. D.**, Scambray, K. A., Lui, K. K., Vandekerckhove, J., Srinivasan, R. [The time course of brain signals reflect different cognitive processes during human decision making](#). Presented at the Society for Neuroscience. San Diego, CA, November 2018.
- **Nunez, M. D.**, Vandekerckhove, J., Srinivasan, R. [The cognitive chronometry of rapid human decision making](#). Presented at the Society for Neuroscience. Washington, DC, November 2017.
- Schubert, A. L., **Nunez, M. D.**, Frischkorn, G. T., Hagemann, D. A model-based cognitive neuroscience account of the chronometry of human decision making. Presented at Psychologie und Gehirn. Trier, Germany, June 2017.
- **Nunez, M. D.**, Gosai, A., Vandekerckhove, J., Srinivasan, R. Variability in performance during perceptual decision making is related to attentional filtering. Presented at the Society for Neuroscience. San Diego, CA, November 2016.
- **Nunez, M. D.**, Vandekerckhove, J., Srinivasan, R. Informing hierarchical Bayesian models of visual decision making with EEG. Presented at the [SAMSI: Challenges in Functional Connectivity Workshop](#). Reighley-Durham, NC, April 2016.
- **Nunez, M. D.**, Vandekerckhove, J., Srinivasan, R. Single-trial EEG measures of attention predict psychological differences during decision making. Presented at the Society for Neuroscience. Chicago, IL, October 2015.
- **\*Nunez, M. D.**, Srinivasan, R. & Vandekerckhove, J. Single-trial EEG measures of visual attention explain evidence accumulation during perceptual decision making. Presented at Society for Mathematical Psychology. Newport Beach, CA, July 2015. \*Tied for best poster award.

## FUNDED GRANT PROPOSALS

- *University of Amsterdam Starting Grant 2023* “*Extending AI models of abstract reasoning to jointly understand human brain, cognition, and behavior*” (€ 300 EUR). I wrote this grant with Claire E. Stevenson and Dora Matzke
- *NWO SGW Open Competitie 2021* “*Cascading transitions in multistable perception and cognition*” (€ 285 EUR). I wrote this grant proposal with Han van der Maas (project lead), Raoul Grasman, and Simon van Gaal.
- *NSF Methodology, Measurement, and Statistics Proposal 2021* “*Exploratory and confirmatory neurocognitive modeling with latent variables*” (~\$345K USD) I wrote this grant proposal along with Joachim Vandekerckhove and Ramesh Srinivasan based on a new modeling framework and preliminary results.
- [NSF Cognitive Neuroscience Proposal 1850849](#) “*Critical tests of neurocognitive relationships*” (\$675K USD) I wrote this grant proposal along with Joachim Vandekerckhove and Ramesh Srinivasan based on my work on the previous grant.
- [NSF Cognitive Neuroscience Proposal 1658303](#) “*Estimation of unidentified cognitive models with physiological data*” (\$337K USD) I wrote this grant along with Joachim Vandekerckhove and Ramesh Srinivasan based on my PhD advancement materials.

## SOFTWARE

- <https://github.com/mdnunez/pyhddmjags> - Python repository for example Hierarchical Drift Diffusion Model (HDDM) code using JAGS and Stan
- <https://github.com/mdnunez/artscreenEEG> - MATLAB repository to perform basic artifact correction on electroencephalographic (EEG) data
- <https://github.com/mdnunez/encodingN200> - Pre-calculated EEG measures, raw behavioral data, MATLAB stimulus code, and MATLAB, Python, R, and JAGS analysis code for paper [The latency of a visual evoked potential tracks the onset of decision making](#)
- <https://github.com/mdnunez/ERPIORT> - MATLAB and Python analysis code for the paper [Individual differences in cognitive abilities are predicted by cortical processing speed: A model-based cognitive neuroscience account](#)
- <https://github.com/mdnunez/sozhfo> - Python and MATLAB analysis code for the paper [Beyond rates: time-varying dynamics of high frequency oscillations as a biomarker of the seizure onset zone](#)
- <https://github.com/mdnunez/RPDecision> - MATLAB analysis and modeling code for the paper [Timing of readiness potentials reflect a decision-making process in the human brain](#)
- <https://github.com/mdnunez/mcntoolbox> - The purpose of Mathematical Cognitive Neuroscience Toolbox is to provide



users interested in cognitive neuroscience and mathematical psychology a set of example MATLAB and R scripts for data analysis and experimentation.

## TEACHING / PEDAGOGY

### Teaching Certification: Netherlands University Teaching Qualification (BKO)

- **Programming in Psychological Science (UvA), Jan-Feb 2022/2023:** I teach Psychology Research Masters students introductory programming in both R and Python. Course materials are available here: [https://github.com/mdnunez/PIPS\\_course](https://github.com/mdnunez/PIPS_course)
- **Research Design & Statistics (UvA), Nov-Dec 2021/2022:** I teach Brain & Cognition Masters students to conduct statistical inference and analyze data in R and JASP.
- **Behavioural Research Toolbox / Simulation Models, Methods & Statistics (UvA), Sep-Oct 2021/2022:** I teach students in this undergraduate course to simulate from statistical distributions and models in Python and R, as well as conduct statistical analysis and build experiments
- **Model-based Neuroscience Summer School, July 2022/2023:** I taught sessions to mainly PhD students / Postdocs on the topic of joint models of EEG and behavior.
- **Sixth European Summer School on Computational and Mathematical Modeling of Cognition, July 2022:** I mentored PhD students on their own computational modeling projects. I also taught sessions on Python programming, Bayesian statistics, and joint models of EEG and behavior.
- **Bayesian Statistics (UvA), June 2022:** I co-taught a theoretical basis and principles of Bayesian Statistical analysis to approximately 70 undergraduates.
- **Neuromatch Academy Project Mentor, Summer 2021:** I advised 5 PhD students from various backgrounds on a project to use High Frequency Oscillations (HFOs) in the Fusiform Face Area using ECoG/iEEG data to predict face perception.
- **History of Neuroscience (UCI), Fall 2016:** I answered student questions, graded quizzes and exams.
- **Probability and Statistics III in MATLAB (UCI), Spring 2015:** I held discussion sections and office hours and taught students statistical algorithms and topics such as bootstrapping.
- **Introductory Statistics (UCI), Falls of 2012 and 2014:** I taught lab and discussion sections as well as met with students individually and in group review sessions.
- **Experimental Methods (UCI), Winter 2012, Spring 2013, Winter 2013:** I was responsible for lab and discussion sections as well as helping students with their writing and research projects.

## WORKSHOPS

- Bayesian cognitive modeling using the R-package brms - Given for the European Society for Cognitive Psychology 2022

## COMMITTEE MEMBERSHIPS & ORGANIZATION ROLES

- Psychology Diversity and Inclusivity Committee
- Society for Mathematical Psychology 2023 Conference Co-Organizer

## PROFESSIONAL MEMBERSHIPS

- [Society for Mathematical Psychology](#) (active)
- [IOPS: InterUniversity Graduate School of Psychometrics and Sociometrics](#) (active)
- European Society of Cognitive Psychology (active)
- Society for Neuroscience (inactive)
- American Epilepsy Society (inactive)

## GROUP MEMBERSHIPS

- [Amsterdam Mathematical Psychology Laboratory](#) (active)
- Amsterdam Brain and Cognition (active)