

Michael D. Nunez

PhD Candidate
Cognitive Sciences Department
University of California, Irvine

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EDUCATION

PhD Student at the University of California, Irvine

2017 - Anticipated PhD in Psychology w/ Concentration in Cognitive Neuroscience

Cognitive Sciences Department

University of California, Irvine

2015 - M.S. in Statistics

Statistics Department

Tulane University, New Orleans, LA

2010 - B.S. in Mathematics and Economics

Minor in Psychology

ACADEMIC EMPLOYMENT HISTORY

Graduate Student Researcher, Human Neuroscience Lab, Cognition and Individual Differences Lab

University of California, Irvine

2012 - Present

Research Assistant, Psychology Department

Tulane University, New Orleans, LA

2011-2012

PEDAGOGY

- *Introductory Statistics*, Teaching Assistant, Falls of 2012 and 2014
- *Experimental Methods*, Teaching Assistant, Winter 2012, Spring 2013, Winter 2013

PROFESSIONAL SKILLS

- Neuroimaging:
 - EEG (EGI and ANT hardware and software, ICA artifact correction, ERPs, SSVEPs, custom Python and MATLAB functions, EEGLAB, etc.)
 - fMRI
- Programming: Python, R, MATLAB, JAGS, STAN, Linux Bash
- Mathematics: Frequentist and Bayesian Multivariate Statistics, Time Series, Signal Processing, Linear Algebra, Multivariate Calculus, etc.
- Other analysis tools: SPSS/JASP, Mathematica
- Presentation: Psychtoolbox 3, LaTeX, GIMP, MS Office
- Operating systems: Linux, Windows, Mac

PUBLICATIONS

- **Nunez, M. D.**, Vandekerckhove, J., & Srinivasan, R. (2016). [How attention influences perceptual decision making: Single-trial EEG correlates of drift-diffusion model parameters](#). *Journal of Mathematical Psychology*.
- **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
- **Nunez, M. D.**, Nunez, P. L., & Srinivasan, R. (in press; 2016) [Electroencephalography \(EEG\), neurophysics, experimental methods, and signal processing](#). *Handbook of Statistical Methods for Brain Signals and Images*. H. Ombao, M. Lindquist, W. Thompson, J. Aston (Eds.). (pp. 600): CRC Press, Taylor and Francis Group.

CONFERENCE PRESENTATIONS

- **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.

CONFERENCE POSTERS

- **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.

FELLOWSHIPS AND AWARDS

- *Jean-Claude Falmagne Research Award*, Summer 2016
- *Summer School in Adaptive Neurotechnologies*, Summer 2016
- *Associate Dean's Fellowship*, Winter 2015
- *John I. Yellott Scholar Award*, Summer 2013

PROFESSIONAL MEMBERSHIPS

- Society for Neuroscience
- Society for Mathematical Psychology