Nooreen Dabbish

Objective

Apply statistical methods to behavioral decision making problems.

Work Experience

2012 - 2013 **Statistic Analyst Intern**, Brass Lab, University of Pennsylvania
Statistical analysis of large, multivariate platelet flow cytometry data. Employed techniques including simple visualization and inference, MANOVA, dimensionality reduction (SVD, PCA), and cluster-analysis techniques. Using R.

Education

2013 - Present **PhD student in Statistics**

Institution Temple University

2003 - 2012 **PhD, Neurocience (Advisor: David Raizen, MD/PhD)**

Institution University of Pennsylvania

Dissertation Topic Observed alterations in synaptic transmission at the neuromuscular junction during sleep-like states in *C. elegans*.

1998 - 2002 **BS Biomedical Engineering; BS Biophysics**

Institution University of Southern California

Projects

GitHub Activity Analysis Interested in whether time-of-day usage patterns predict productivity, I am modeling circadian rhythms using publicly available data from the GitHub API and GitHub data archives. Scraping and analysis performed in Python and visualization creation with D3.js.

Technical Skills

Languages & Libraries Proficient – R, Python, Matlab, HTML, Javascript, CSS

Learning – Emacs Lisp, C#, j

Technical Coursework

Matematics for Statistics Set Theory, Linear Algebra, Advanced Calculus

Statistical Methods Statistical inference and methods for linear models, linear and logistic regression, survival analysis and mixed effect model, mathematical typesetting with LaTeX, R for statistical computing

Probability and Statistics Theory Mathematical theory of statistics, data compression, estimation, testing, goodness-of-fit, nonparametric inference and resampling

Stochastic Processes Stochastic models, conditional expectation, Markov chains, renewal processes, continuous time process, Brownian motion, and Black-Scholes models

Publications

- Dabbish NS, Raizen DM. GABAergic synaptic plasticity during a developmentally regulated sleep-like state in C. elegans. *J Neurosci.* 2011 Nov2;31(44):15932-43.
- Chuang HS, Raizen DM, Dabbish N, Bau HH. Electro-worming: The behaviors of Caenorhabditis (C.) elegans in DC and AC electric fields. *Phys Fluids* (1994). 2011 Sep;23(9):91107-911071.
- Chuang HS, Raizen DM, Lamb A, Dabbish N, Bau HH. Dielectrophoresis of Caenorhabditis elegans. *Lab Chip.* 2011 Feb 21;11(4):599-604.
- Jha SK, Jones BE, Coleman T, Steinmetz N, Law CT, Griffin G, Hawk J, Dabbish N, Kalatsky VA, Frank MG. Sleep-dependent plasticity requires cortical activity. *J Neurosci.* 2005 Oct 5;25(40):9266-74.

Teaching Experience

Fall 2013 **Teaching Assistant**, Business Calculus, Temple Univeristy

Spring 2007 **Teaching Assistant**, Introduction to Brain & Behavior, University of Pennsylvania

2000-2002 **Supplemental Instructor**, Physics and Calculus, University of Southern California

Fellowships and Selected Awards

- Sleep NIH training grant, 2007 – 2008, 2009-2011
- USC Wall of Scholars Scholar, 2002
- National Security Education Program fellowship, 2001
- Barry M Goldwater Scholarship, 2001

Personal Information

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