Eric L. Denovellis

Contact Information

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Research Interests

Cognitive flexibility, task switching, reversal learning, computational modeling, statistical methods for large datasets, neural networks

Education

Boston University, Boston, Massachusetts USA
Graduate Program for Neuroscience

Computational Neuroscience, September 2009 (expected graduation date: January 2015)

- Advisors: Daniel Bullock, Earl K. Miller

University of California, Santa Barbara, Santa Barbara, California USA

B.S., Mathematics and Philosophy with High Honors, June 2007

Academic Experience

Boston University, Boston, Massachusetts USA

Graduate Student **September, 2009 - Present**
Includes doctoral and masters level coursework in mathematics, statistics, computational modeling, and neuroscience as well as research into the neural and computational correlates of task switching.

Teaching Fellow **January, 2011 - May, 2011**
Gave lecture on task switching. Led MATLAB tutorial and designed the course final project.

University of California, Santa Barbara, Santa Barbara, California USA

Campus Learning Assistance Services - Mathematics Tutor **September, 2005 - June, 2007**
Assisted students with mathematics homework for lower level courses.

Service

CELEST Student Organization Co-President **May, 2011 - Present**
In charge of organizing CELEST student events, scheduling the speaker series, Matlab tutorials for CELEST interns

Computational Neuroscience Student Organization Treasurer **May, 2010 - March, 2011**
In charge of budgeting funds and reimbursing students.

Publications

Buschman, T.J., Denovellis, E.L., Diogo, C., Bullock, D., and Miller, E.K. (2012). Synchronous Oscillatory Neural Ensembles for Rules in the Prefrontal Cortex. Neuron. *76*, 1–9.

Conference Proceedings

Denovellis, E.L., Buschman, T.J., Diogo, C., Bullock, D., and Miller, E.K. Point process models of anterior cingulate and dorsolateral prefrontal cortical neurons during cognitive control. Program No. 599.12. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.

Buschman, T.J., Denovellis, E.L., Diogo, C., Bullock, D., and Miller, E.K. Dynamic, synchronous, sub-networks in prefrontal cortex encode stimulus-response rules. Program No. 599.12. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.

Denovellis, E.L., Buschman, T.J., Diogo, C., Bullock, D., and Miller, E.K. Rule-based task switching in the anterior cingulate and prefrontal cortex. Program No. 405.18. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.

Talks

Synchronous Neural Ensembles for Rules in the Prefrontal Cortex. The 5th Annual Dana and Betty Fisher Retreat of the Picower Institute. Red Jacket Resort. South Yarmouth, MA June 2012.

Neural Dynamics of Cognitive Flexibility. Fall 2011 Picower Plastic Lunch Series. Massachusetts Institute of Technology. Cambridge, MA October 2011.

Professional Experience

Mercer Advisors, Santa Barbara, California USA

Pension Consultant I **October, 2007 - July, 2009**

In charge of designing and advising clients on pension plans for three national offices. Carried out statistical analysis of pension plans. Attended conferences to keep abrest of IRS rule changes. Designed a computer program to enhance the efficiency of pension plan design and analysis.

Professional Memberships

Society for Neuroscience **May, 2011 - present**

Honors and Awards

Phi Beta Kappa, Lambda Chapter

Computer Skills

- Statistical Packages: R, Matlab
- Languages: Java
- Applications: LaTeX, common Windows database, spreadsheet, and presentation software
- Operating Systems: Unix/Linux, Windows.