

**Chris Rodgers**  
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## EDUCATION

**PhD, University of California – Berkeley**, Berkeley, California 2013  
Neuroscience, with a designated emphasis in Computational Science and Engineering GPA 4.0

**BEng, McGill University**, Montreal, Canada 2007  
Electrical Engineering, with “Great Distinction” GPA 3.95

## RESEARCH AND INDUSTRY EXPERIENCE

**Postdoctoral Research: Columbia University** 2014 - present  
Advisor: Dr Randy Bruno  
*Functional interactions between layers of barrel cortex during behavior*

**PhD Research: University of California – Berkeley** 2007 - 2013  
Advisor: Dr Michael DeWeese  
*Rule-encoding neurons in prefrontal and auditory cortex of rats performing a task similar to the cocktail party problem*

**Undergraduate Honors Research: McGill University** 2006 - 2007  
Advisors: Dr Erik Cook (Neuroscience) and Dr Anas Hamoui (Electrical Engineering)  
*The neuron modeled as a delta-sigma analog-to-digital converter*

**Hardware Engineering Internship: National Instruments Corp.** Summer 2006  
*Research and development on data acquisition (NIDAQ) firmware*

**Summer Research Assistant: University of Maryland – College Park** Summer 2004  
National Science Foundation-funded *Research Experience for Undergraduates* program  
Advisor: Dr Jonathan Simon  
*Oscillations in magnetoencephalography (MEG) data from human auditory cortex*

**Summer Research Assistant: Princeton University** Summer 2003  
National Science Foundation-funded *Research Experience for Undergraduates* program  
Advisor: Dr Stephen Forrest  
*Modeling the structure of quantum dots to predict their emission properties*

## PUBLICATIONS

**Rodgers CC** and DeWeese MR. “Neural correlates of task switching in prefrontal cortex and primary auditory cortex in a novel stimulus selection task for rodents.” *Neuron* 82:5 (2014).

Garcia S, Guarino D, Jaillet F, Jennings T, Pröpper R, Rautenberg PL, **Rodgers CC**, Sobolev A, Wachtler T, Yger P, Davison AP. “Neo: an object model for handling electrophysiology data in multiple formats.” *Frontiers in Neuroinformatics* 8:10 (2014).

Sohl-Dickstein J, Teng S, Gaub BM, **Rodgers CC**, Li C, DeWeese MR, Harper NS. “A device for human ultrasonic echolocation.” In press, *IEEE Transactions on Biomedical Engineering*.

## AWARDS

- Kavli Institute Postdoctoral Fellowship**, Columbia University and Kavli Institute 2014-2015  
To perform collaborative research with Dr Bruno (experiment) and Dr Stefano Fusi (theory)
- James McGill Award**, McGill University 2007  
On the basis of academic standing and faculty recommendations
- British Association Medal**, McGill University 2007  
For highest performance on Engineering final exams

## PRESENTATIONS

- Society for Neuroscience annual meeting; Chicago, IL 2015  
Poster: *A head-fixed behavioral paradigm for studying whisker-mediated object recognition in mice*  
**Rodgers C**, Khanna A, Calafati P, Bruno RM.
- Society for Neuroscience annual meeting; Washington, DC 2014  
Poster: *OpenMaze: A new resource for open source hardware and software for rodent behavioral neuroscience*  
Lacefield CO, **Rodgers C**, Bruno RM.
- Society for Neuroscience annual meeting; New Orleans, LA 2012  
Poster: *Neural correlates of selective auditory attention in rodents*  
**Rodgers C** and DeWeese MR.
- Computational and Systems Neuroscience meeting; Salt Lake City, UT 2011  
Poster: *Neural mechanisms of selective auditory attention in rodents*  
**Rodgers C**, Dolinajec T, Lin L, Rustagi A, Sabahi Y, DeWeese MR.
- Advances and Perspectives in Auditory Neurophysiology meeting; Chicago, IL 2009  
Poster: *Developing a rodent model of selective auditory attention*  
**Rodgers C**, Vu C, Kochik SE, Zhang J, Shah A, Rustagi A, Pham CQ, Murphy J, Li T, Hsu T, Choi C, DeWeese MR.

## TEACHING AND MENTORSHIP

- Member of UC-Berkeley committee to design a new statistics course for neuroscientists** 2014
- Course title: "Applied statistics for neuroscience"
  - Met regularly with faculty and other graduate students during 2013
  - Helped shape the course philosophy to be hands-on and data-driven
  - Wrote lectures and problem sets in collaboration with other students
- Designed and supervised honors thesis work for undergraduates in the DeWeese lab**
- Ambika Rustagi. "Investigating the effect of natural temporal envelopes on the characterization of response properties of auditory neurons." 2012.
  - Daniel Resnick. "Stimulus-evoked neural activity across cortical layers of the rat primary auditory cortex." Outstanding Poster Award, Molecular and Cellular Biology Undergraduate Research Conference. 2011.
  - Trevor Dolinajec, now *PhD* candidate, Biophysics, University of California - Berkeley. "Constructing tetrode drives." 2010.

**Graduate Student Instructor, University of California – Berkeley**

- Course title: “Physiological and genetic basis of behavior” 2009  
Instructors: Professor Kristin Scott and Professor Daniel Feldman  
Led and prepared lecture for weekly discussion section
- Course title: “Mind, brain, and behavior” 2008  
Instructor: Professor David Presti  
Led and prepared lecture for three weekly discussion sections