

Olivia Goldman

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EDUCATION

Barnard College of Columbia University, New York, NY September 2010-May 2014
Major: Neuroscience & Behavior (Cellular concentration)
GPA: x.xx, **Major GPA:** x.xx
Honors: On Dean's List for Fall 2010-Fall 2013

EMPLOYMENT / RESEARCH EXPERIENCE

Columbia University, Department of Neuroscience July 2014-November 2016
Research Assistant, Advisor: Dr. Eleanor Simpson, lab of Nobel Prize winner Dr. Eric Kandel
Main project: Using behavioral pharmacology and *in vivo* microdialysis, investigated the impact of 5-HT_{2c} receptor modulation on tonic dopamine changes in the midbrain during motivated behavior.
Other projects: Investigated neurogenesis in the striatum using different behavioral paradigms, rt-qPCR, immunohistochemistry and confocal microscopy.

Barnard College of Columbia University, Department of Biology September 2011-May 2014
Research Assistant, Advisor: Dr. John Glendinning
Senior Thesis Project: Performed *in vivo* electrophysiology in rats to investigate alterations in the peripheral taste system caused by fetal ethanol exposure. Developed procedures for accessing, recording from the lingual and glossopharyngeal nerve, stimulating sensory fields and analyzing data.
Funding: Through Columbia's Summer Undergraduate Research Fellowship (SURF) in Biological Sciences for Summer 2013. Gave oral and poster presentations.
Other Projects: Examined the role of oral stimulation of sweet taste in the release of insulin from the pancreas.

Princeton University, Department of Molecular Biology Summer 2012
Research Assistant, Advisor: Dr. Mala Murthy
Worked on the development of single-fly, appetitive-conditioning *Drosophila* assay for measuring olfactory learning for the investigation of cellular memory traces.
Funding: Through Princeton's Summer Undergraduate Research Program (SURP) in Molecular Biology for Summer 2012. Gave oral and poster presentations on summer project.

Rutgers University, Department of Biology Summer 2009
Research Assistant, Advisor: Dr. Monica Driscoll
Assisted in manipulation of *C. elegans* genome using RNAi to increase longevity and vitality in old age.

PUBLICATIONS

Bailey M, **Goldman O**, Bello E, Jeong N, Winiger V, Schipani E, Balsam P, Simpson E. A functional interaction between serotonin receptor signaling and striatal dopamine release enhances motivation in mice. *Manuscript in preparation; submission to Journal X planned for December 2016.*

Glendinning JI, Stano S, Holter M, Azenkot T, **Goldman O**, Margolskee RF, Vesselli JR, Sclafani A. Sugar-induced cephalic-phase insulin release is mediated by a T1r2+T1r3-independent taste transduction pathway in mice. *American Journal of Physiology - Regulatory, Integrative and Comparative Physiology*. 2015 July 8. doi: 10.1152/ajpregu.00056.2015

TEACHING EXPERIENCE

BIOL 1500 – Introduction to Organismal and Evolutionary Biology and **BIOL 1502 – Introduction to Cellular and Molecular Biology**, Supplemental Instruction Leader
Semesters: Fall 2011, Spring 2012, Fall 2012
Responsibilities Included: Assisting approx. 150 students each semester, planning and leading 3 discussion sessions per week, leading review sessions before exams, holding office hours

BIOL 2100 – Molecular & Mendelian Genetics, Supplemental Instruction Leader
Semesters: Spring 2013, Fall 2013, Spring 2014
Responsibilities Included: Assisting approx. 30-60 students each semester, planning and leading 2-3 discussion sessions per week, leading review sessions before exams, holding office hours

LABORATORY / COMPUTER SKILLS

- *In vivo* microdialysis in awake, behaving mice
- Cannula implantation, anesthesia administration, tracheotomy
- Electrophysiology (multi-unit, *in vivo*)
- Manipulating behavioral paradigms and analyzing behavioral data with mice
- Immunohistochemistry, *In situ* hybridization, rt-qPCR, PCR, ELISA (Enzyme-linked immunosorbent assay)
- Genotyping, insulin measurement, blood-letting, brain histology and other procedures with mice
- Memory assay for single flies for olfactory conditioning in *Drosophila melanogaster*
- Vitality measurements for *C. elegans*
- Handling and husbandry procedures for mice, *Drosophila*, *C. elegans*
- Data management and analysis using Matlab, ImageJ, Python, SQL, R, and Prism
- *Languages spoken*: English (fluent), French (conversational), German and Polish (basic skills)

OTHER PROJECTS & LEADERSHIP POSITIONS

- Graduate Women in Science**, Fellowship committee member 2017-2018 funding cycle
Selected as a committee member for determining awardees of the GWIS National Fellowships Program
- Neurostorm**, Columbia University July 2014-present
Weekly, interdisciplinary, student-run neuroscience journal club, with doctoral and post-doctoral members from labs across multiple departments of Columbia University
- STROKE**, Co-creator/writer *In development*
A virtual reality project/narrative film developed by neuroscientists at Columbia University that conveys an artistic and first-hand portrayal of what it is like to experience a stroke and a subsequently a coma
- The Nine Ways of Knowing Blog**, Barnard College, Columnist (Spring 2011-present), Arts Editor (Spring 2011, Fall 2013-present), Senior Editor (Fall 2011-Spring 2012), Editor-in-Chief (Fall 2012-Spring 2013)
As editor-in-chief, more than doubled staff size and increased page views by over 500%; edited and uploaded daily content, organized responsibilities among staff members, assigned pitches to staff writers; responsibilities included web design, HTML and social media; helped found and gain Student Government recognition for student-run blog (www.theninewaysofknowing.com)
- Columbia Science Review**, Columbia University, Webmaster (Fall 2013-present), Writer (Fall 2013-present)
Conceptualized and executed alterations for website, uploaded blog content and responsible for maintenance, general executive board responsibilities (www.columbiasciencereview.com)
- Volunteer Program Coordinator**, St. Luke's Hospital Fall 2011-Fall 2015
Initiated a program for organizing performances in various units of the hospital (e.g., Adult Psychiatric, Detox, Geriatric Psych, Adult Rehab) by contacting performers and working as a liaison with hospital staff
- International Vocal Arts Workshop**, Jeunesses Musicales Croatia Summer 2011
Accepted to and attended an interdisciplinary performing arts program and festival in Grožnjan, Croatia
- Barnard-Columbia Choir**, Columbia University, Member Fall 2010- Spring 2014
Performed with L'ensemble Médical (German medical schools LMU and TMU) at Carnegie Hall in Spring 2011

SCIENTIFIC RESEARCH / PERSONAL INTERESTS

- Sensory perception-related research
- Collaborations between perspectives of neuroscience (computational, cognitive, philosophy of mind, etc.)
- Scientific writing and the impact and dynamics of popular and academic scientific publications
- Supporting women in the sciences
- The intersection of science and art

REFERENCES

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