
CURRICULUM VITAE

MARIEL ROBERTS

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New York, NY 10003

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EDUCATION

New York University
Ph.D., Experimental Psychology
Cognition & Perception Program
Doctoral Advisor: Marisa Carrasco, Ph.D., M.A.

New York, NY; 2014-Spring 2019 (Expected graduation)

University of Pennsylvania
B.A. Biological Basis of Behavior with Honors
Magna Cum Laude

Philadelphia, PA; 2008-2012

TEACHING

NYU Undergraduate Perception
Teaching Assistant

New York, NY
Fall 2017

Undergraduate Freshman Seminar: "How We See," New York University
Teaching Assistant

New York, NY
Fall 2013 & Fall 2014

MENTORSHIP

NYAS 1000 Girls 1000 Futures Program
Female STEM Mentor

New York, NY
Spring 2018-

NYU GSAS Mentorship Program
Graduate Student Mentor

New York, NY
Spring 2018-

NYU Undergraduate Research Internship
Research Mentor to two undergraduates

New York, NY
Spring 2018-

NYU Summer Undergraduate Research Program
Research Mentor to SURP student

New York, NY
Summer 2017

Co-supervision of NYU Undergraduate Honors Research Thesis
Research Mentor

New York, NY
Fall 2012-Spring 2013

PUBLICATIONS

- Roberts, M.**, Ashinoff, B., Castellanos, F. X., & Carrasco, M. (2017). When attention is intact in ADHD. *Psychonomic Bulletin & Review*, 24(6), 1-12. doi: 10.3758/s13423-017-1407-4.
- Roberts, M.**, Cymerman, R., Smith, R. T., Kiorpes, L., & Carrasco, M. (2016). Covert spatial attention is functionally intact in amblyopic human adults. *Journal of Vision*, 16(15), 1-19. doi: 10.1167/16.15.30. PMCID: PMC5215291.
- Dugué, L., **Roberts, M.**, & Carrasco, M. (2016). Attention reorients periodically. *Current Biology*, 26(12), 1595-1601. doi: 10.1016/j.cub.2016.04.046. PMCID: PMC4935543.
- He, K., Woodman, N., Boaglio, S., **Roberts, M.**, Supekar, S., & Maldonado, J. (2015). Molecular phylogeny supports repeated adaptation to burrowing within small-eared shrews of the genus of *Cryptotis* (Eulipotyphla, Soricidae). *PloS ONE*, 10(10), e0140280. doi:10.1371/journal.pone.0140280. PMCID: PMC4619083.
- Cavanaugh, M. R., Zhang, R., Melnick, M. D., Das, A., **Roberts, M.**, Tadin, D., Carrasco, M. & Huxlin, K. R. (2015). Visual recovery in cortical blindness is limited by high internal noise. *Journal of Vision*, 15(10): 9, 1-18. doi:10.1167/15.10.9. PMCID: PMC4585331.

TALKS

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| "Attention reorients periodically" | |
| NYU Cognition & Perception Mini-Convention | September 2016 |
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| "Covert spatial attention is functionally intact in amblyopic human adults" | |
| NYU Cognition & Perception Mini-Convention | September 2015 |
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| "Use of 18F-FDG-PET for quantitative assessment of temporal lobe epilepsy on brain metabolism" | |
| University of Pennsylvania Honors Research Symposium | May 2012 |
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| "The effect of attention on visual perceptual learning: defying location specificity?" | |
| NYU Center for Neural Science SURP Research Symposium | July 2011 |

CONFERENCE ABSTRACTS & POSTERS

- Roberts, M.**, Brandon K. Ashinoff, F. Xavier Castellanos, & Carrasco, M. (2017). Endogenous and exogenous attention are functionally intact in adults with ADHD. *Journal of Vision*, 17(10): 699-699.
- Dugué, L., **Roberts, M.** & Carrasco, M. (2016). Attention reorients periodically. Center for Visual Science

30th Annual Symposium: The Future of Attention, University of Rochester, Rochester, NY.

Ashinoff, B., **Roberts, M.**, Castellanos, F.X. & Carrasco, M. (2015). Exogenous spatial attention in adults with ADHD is intact. *Perception*, 44:110-111.

Dugué, L., **Roberts, M.** & Carrasco, M. (2015). Occipital TMS modulates the effect of attention on contrast sensitivity. *Perception*, 44:110-111.

Roberts, M. & Carrasco, M. (2015). Amblyopic adults demonstrate intact endogenous spatial attention. *Journal of Vision*, 15(12): 1339-1339.

Carrasco, M., **Roberts, M.** & Kiorpes, L. (2014). Exogenous spatial attention in amblyopic adults is intact. *Perception*, 43, S8.

Carrasco, M., **Roberts, M.**, Cymerman, Smith, R. T., & Kiorpes, L. (2014). Intact functioning of exogenous spatial attention in amblyopic adults. *Journal of Vision*, 14(10): 539-539.

Cavanaugh, M. , Melnick, M. , Zhang, R., **Roberts, M.**, Das, A., Tadin, D., Carrasco, M. & Huxlin, K. (2014). Residual inefficiencies of recovered vision in cortically blind fields—insights from the equivalent noise analysis. *Journal of Vision*, 14(10): 659-659.

HONORS, AWARDS & FELLOWSHIPS

National Science Foundation Graduate Research Fellow	Fall 2015-Summer 2017; Fall 2018-Spr 2019
NYU Vision Training Grant	Fall 2017-Summer 2018
NYU Dean's Student Travel Grant	Spring 2015
Recipient of NYU MacCracken Program Award	Fall 2014-Summer 2015
Member of Nu Rho Psi, National Honor Society in Neuroscience	2012
Dean's List	2009-2012
Kodak Young Leaders Award and Scholarship	2008

PROFESSIONAL MEMBERSHIPS

Vision Sciences Society
New York Academy of Sciences
Association for Psychological Science
Society for Neuroscience: New York Chapter

RELEVANT COURSEWORK

Learning & Memory	Spring 2018
Individual Development Plan	Fall 2017

Psychophysics (audited)	Fall 2017
Seminar in Attention & Perception	Spring 2017
Math Tools II: Simulation & Data Analysis	Spring 2016
Perception	Fall 2015
Functional Magnetic Resonance Imaging Lab	Fall 2015
Responsible Conduct in Research Training	Spring 2015
Sensory and Motor Neural Science	Spring 2015
Cognitive Neuroscience	Spring 2015
Neuroanatomy	January 2015
Math Tools I for Cognitive Science and Neuroscience	Fall 2014

RESEARCH EXPERIENCE

Department of Psychology, New York University <i>Lab Manager</i> , Principal Investigator: Marisa Carrasco, Ph.D., M.A.	New York, NY Summer 2012-Fall 2014
Department of Radiology, Hospital of University of Pennsylvania <i>Research Assistant</i> , Principal Investigator: Abass Alavi, M.D.	Philadelphia, PA Fall 2011-Spring 2012
Department of Psychology, New York University <i>Research Intern (Funded by NSF)</i> , Principal Investigator: Marisa Carrasco, Ph.D., M.A.	New York, NY Summer 2011
Center for Visual Science, University of Rochester Medical Center <i>Research Intern</i> , Principal Investigator: Tania Pasternak, Ph.D.	Rochester, NY Summer 2010
Center for Conservation & Evolutionary Genetics, Smithsonian Institution <i>Research Intern</i> , Principal Investigator: Jesús E. Maldonado, Ph.D., M.S.	Washington D.C. Summer 2009

OUTREACH

Biobus, Brain Awareness Week Volunteer at BrainNY station	Harlem, NY March 17th, 2018
World Science Festival, City of Science Volunteer at BrainNY brain bank table	Lehman College, Bronx, NY March 11th, 2018
World Science Festival, City of Science Volunteer at BrainNY brain bank table	Park Slope Armory, Brooklyn, NY Dec 10th, 2017
World Science Festival Ultimate Science Night Volunteer at BrainNY station	Kimmel Center, New York University, NY June 4th, 2017
NYU Undergraduate Women in Science Initiative Meeting Volunteer panelist	New York, NY March 3rd, 2016

Biobus, Brain Awareness Week
Volunteer at BraiNY table

Harlem, NYC
March 12th, 2016

Brain Awareness Week, Family Night at New York Hall of Science
Student volunteer

Queens, NY
March 18th, 2016

World Science Festival, City of Science
Volunteer at BraiNY station

Park Slope Armory, Brooklyn, NY
October 16th, 2016

RESEARCH SKILLS

Programming Matlab: experimental programming (MGL toolbox), data analysis, figure creation
R: experimental programming
GitHub: comfort with uploading, revising, and sharing code
Command-line operation in UNIX Terminal
Basics of HTML for personal website maintenance

Neuroimaging Certified MRI User
Experimental design
Data analysis (FSL, Freesurfer, Matlab)
Anatomical segmentation of ^{18}F -FDG-PET scans (ROVER software)

TMS Certified Transcranial Magnetic Stimulation (TMS) Operator
Magstim Rapid2 Plus1 stimulator (3.5T), 70mm figure-of-eight coil
Brainsight Neuronavigation system (Rogue Research)
FASTSCAN digital laser scanner
Experimental design of TMS studies, phosphene thresholding, data collection

Experimental Skills SPSS statistics software
Experimental design, data collection, and analysis of visual psychophysics studies
Eye movement recording (Eyelink 1000, ISCAN)
Writing and submission of IRB approvals
Grant submissions (NIH, NSF)
Figure editing using Inkscape
Maintenance of Endnote reference library
Maintenance of websites (HTML)
Proficient in Word, Pages, Excel, Numbers, PowerPoint, Keynote

Administration Co-organizer of Masters' Research Conference in Spring of 2017 and 2018

Business Manager of co-ed collegiate a cappella group

Several years customer service experience in restaurant industry

HS Class Secretary of Student Council from 2006-2008

Comfort with public speaking and performance:

- active member of Grace Church Choral Society in NYC (2017-present)
- soloist in co-ed collegiate a cappella group, "The Penny Loafers" (4 yrs)
- HS Jazz Choir (3 yrs) and ensemble member in 3 musicals
- 1st chair tenor saxophone player in Pittsford Sutherland HS Wind Ensemble (4 yrs) and Jazz Ensemble (4 yrs)
- Private voice lessons and recitals at Eastman School of Music, Rochester, NY