

Nicholas M George

University of Colorado Anschutz Medical Campus

Cell and Developmental Biology

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🌐 <https://nickgeorge.net>

Education

- 2016- **Ph.D. Neuroscience**
University of Colorado, Anschutz Medical Campus, Aurora, CO
Thesis: "Excitable axonal domains adapt to olfactory sensory experience in adults"
Advisors: Diego Restrepo and Wendy Macklin
- 2014-2016 **M.S. Anatomy and Neurobiology**
Virginia Commonwealth University, School of Medicine, Richmond, VA
Thesis: "[Resolution of Inflammation Rescues Axon Initial Segment Disruption](#)"
Advisor: Jeffrey Dupree
- 2009-2012 **B.S. Human Nutrition, Foods, and Exercise**
Virginia Tech, Blacksburg, VA

Funding

- 2019-2022 [1F31 DC018459-01](#)
NIH/NIDCD
"Investigating axonal and glial adaptations to sensory manipulations in the olfactory system"
Role: PI
- 2017-2018 TL1 TR001082
Colorado Clinical and Translational Sciences Institute
"Neuronavigation with a fiber-coupled microscope"
Role: Pre-doctoral Fellow

Publications

- 2018 Gould, E. A., Busquet, N., Shepherd, D., Dietz, R. M., Herson, P. S., de Souza, F. M. S., Li, A., **George, N. M.**, Restrepo, D., and Macklin, W. B. (2018). Mild myelin disruption elicits early alteration in behavior and proliferation in the subventricular zone. *eLife*, 7:e34783.
- 2017 Benusa, S. D., **George, N. M.**, Sword, B. A., DeVries, G. H., and Dupree, J. L. (2017). Acute neuroinflammation induces AIS structural plasticity in a NOX2-dependent manner. *Journal of Neuroinflammation*, 14(1):116.

Invited Talks

- 2019 **Gordon Research Seminar: Glial Biology**, Ventura, CA
 "Investigating glial and axonal adaptations to sensory deprivation in the olfactory system"
 CU Anschutz Neuroscience retreat, Keystone, CO
 "Glial and axonal adaptations to sensory deprivation in the olfactory system"
- 2018 **Translational Science**, Washington, DC
 "A novel multiphoton microscopy method for neuronavigation in deep brain stimulation surgery"
 All Neurosurgery Research Meeting, Aurora, CO
 "Characterizing autofluorescence in human STN for deep brain neuronavigation"

Poster Presentations

- 2019 Gordon Research Conference: Glial Biology, Ventura, CA
 Association for Chemoreceptive Science, Bonita Springs, FL
 Rocky Mountain Regional Neuroscience Group, Aurora, CO
- 2018 Translational Science, Washington, DC
- 2017 CU Anschutz Neuroscience Retreat, Estes Park, CO
- 2016 William and Mary Graduate Research Symposium, Williamsburg, VA

Honors and Awards

- 2018 Wellcome Fund Trainee Travel Award for Clinical and Translational Research Conference, Washington, DC
- 2016 Visiting Scholar Award for Excellence in the Natural and Computational Sciences. Poster and research summary presented at The William and Mary Graduate Research Symposium, Williamsburg, VA
- 2015 Poster presentation award at the Virginia Symposium on Brain Immunology and Glia, Richmond, VA

Software Development

Other Skills, Experience, and Outreach

- 2020 **Software Carpentry Instructor Training**
I attended a [Software Carpentry](#) workshop when I first started my Ph.D. and it helped me tremendously with data analysis and organization. I would like to lead Software Carpentry seminars and help other researchers adopt techniques to improve experimental data gathering and analysis.
- 2018 **CU Neuroscience Outreach**
I was involved with the CU Neuroscience outreach program. We organized a yearly outreach event for pre-kindergarten to high school students at the Science museum, featuring interactive demos illustrating how sensory systems and neurons worked. I wrote a simple RaspberryPi application with a Tkinter interface to control a thermal camera and email photos of the students to demonstrate snake "heat vision". The project was called [SnakeSnap](#).
- 2017 **CU Anschutz Reproducible Research Network**
Co-founded the [CU Anschutz Reproducible Research Network](#)
This was a short-lived organization meant to provide tutorials and resources to help other researchers with data analysis and statistical computing needs. The RRN was set up in a bi-weekly "clinic" setting, where we would give a short presentation on a reproducible research tool (mostly in the R programming language ecosystem) and would then host office hours for researchers. Initially this was a popular event, but became difficult to maintain early in my PhD work.