

Brianna Barry

Neuroscience PhD Candidate at Johns Hopkins University



> Education

Neuroscience, Doctor of Philosophy July 2022
Biochemistry, Cellular, and Molecular Biology Program
Johns Hopkins University School of Medicine

Biochemistry, Honors, Bachelor of Science May 2017
GPA: 3.84/4.00
Department of Molecular Biosciences
The University of Texas at Austin

> Research

PhD Candidate, Johns Hopkins University May 2018 to present

- > Co-advised by [Andrew Jaffe](#) and [Keri Martinowich](#)
- > Thesis research: integrate mouse and human sequencing data to parse the common and unique molecular architecture of neuropsychiatric disorders

Graduate Rotation Student, Johns Hopkins University Sept 2017 to May 2018

- > [Jaffe Lab](#), March 2018 to May 2018
- > [Feinberg Lab](#), January 2018 to March 2018
- > [Martinowich Lab](#), September 2017 to December 2018

Undergraduate Researcher, University of Texas at Austin May 2014 to May 2017

- > [Hawkes Lab](#), May 2014 to May 2017
 - > Senior Honors Thesis, Aug 2016 to May 2017
- > [Duvauchelle Lab](#), June 2015 to December 2016
- > [Gutell Lab](#), September 2016 to December 2016

Research Assistant, Friedrich-Alexander-Universität, Germany May 2016 to Aug 2016

- > [Johannes Kornhuber Group](#)

> Teaching

Graduate Teaching Assistant, Johns Hopkins University

- > Computational Biology and Bioinformatics Fall 2019
- > Introduction to R for Public Health Researchers Summer 2020

Undergraduate Teaching Assistant, Genetics, University of Texas at Austin Fall 2015

Technology Counselor, STEM Summer Camp, [Girlstart](#) Summer 2017

> Publications

- K. E. Maynard, L. Collado-Torres, L. M. Weber, C. Uytingco, **B. Barry**, S. R. Williams, J. L. Catallini, M. N. Tran, Z. Besich, M. Tippi, J. Chew, Y. Yin, J. E. Kleinman, T. M. Hyde, N. Rao, S. C. Hicks, K. Martinowich, A. E. Jaffe. [Transcriptome-scale spatial gene expression in the human dorsolateral prefrontal cortex](#). *bioRxiv* (2020).
- K. R. Maynard, A. Kardian, J. L. Hill, Y. Mai, **B. Barry**, H. L. Hallock, A. E. Jaffe, K. Martinowich. [TrkB Signaling Influences Gene Expression in Cortistatin-Expressing Interneurons](#). *Eneuro*. 7 (2020), doi:10.1523/ENEURO.0310-19.2019.
- C. Mühle, **B. Barry**, C. Weinland, J. Kornhuber, B. Lenz. [Estrogen receptor 1 gene variants and estradiol activities in alcohol dependence](#). *Prog Neuropsychopharmacol Biol Psychiatry*. 92, 301–307 (2019).

> Presentations

- Divergent expression signatures of neuropsychiatric disorders in cortex and amygdala. May 2020. Biology of Genomes Conference (virtual). [Poster](#).
- Parsing the effects of nicotine and smoking exposures on the developing frontal cortex. March 2020. Neuroepigenetics & Neuroepitranscriptomics Conference (Nassau, Bahamas). [Poster](#).
- Regional Heterogeneity in Gene Expression in Post-Mortem Human Brain Across MDD and PTSD. BCMB Annual Retreat (Cambridge, Maryland). [Poster](#).
- Epigenomic Architecture of the Human Brain. March 2018. BCMB Research Seminar (Baltimore, Maryland). [Talk](#).
- Cell Dynamic Properties of Neurons Expressing Activity-Dependent Brain-Derived Neurotrophic Factor. December 2017. BCMB Poster Session (Baltimore, Maryland). [Poster](#).
- From Genotype to Phenotype: Assembly and Annotation of Two Fungal Genomes. April 2017. Honors Research Colloquium (Austin, Texas). [Poster](#).
- Androgen-dependent neuronal differentiation and alcohol addiction. August 2016. Research Group Seminar (Erlangen, Germany). [Talk](#).
- Global correlations between belowground ectomycorrhizal abundance and soil carbon. August 2015. Ecological Society of America Annual Meeting (Baltimore, Maryland). [Poster](#).

> Awards

National Science Foundation GRFP, Honorable Mention	April 2019
Undergraduate Research Travel Scholarship	April 2017
Molecular Biosciences Faculty Scholarship	Aug 2016
PMH Scholarship	Aug 2016
Blocker-Cramer Endowed Scholarship	Aug 2015
Undergraduate Research Travel Scholarship	March 2016
Kuhn Intellectual Entrepreneurship Award	Feb 2015
Natural Sciences Travel Grant	Feb 2015
College Scholar	Jan 2015, 2016, and 2017
General Henry H. Arnold Education Grant	Aug 2013, 2014, and 2015

> Service

<i>Writer</i> , Biomedical Odyssey	July 2019 to Dec 2019
<i>Policy Representative</i> , AAAS CASE Workshop	March 2019
<i>Scientist Volunteer</i> , Letters to a Pre-Scientist	Sept 2018 to present
<i>Mentor</i> , Higher Achievement	Feb 2018 to May 2018
<i>Volunteer</i> , Project Bridge	Sept 2017 to Sept 2018
<i>Head of Family</i> , Thread	Sept 2017 to Aug 2018
<i>Student Research Ambassador</i> , University of Texas at Austin	Aug 2016 to May 2017
<i>Chair</i> , Research Student Advisory Council, University of Texas at Austin	April 2016 to May 2017
<i>Volunteer</i> , Shadow a Scientist, University of Texas at Austin	June 2015 to Aug 2015
<i>Mentor</i> , Natural Sciences Council, University of Texas at Austin	Feb 2014 to Dec 2015