Melyssa Minto

PhD Candidate in Computational Biology and Bioinformatics

Personal Info

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Soft Skills

- Leadership
- Communication
- Logistical
- Creativity
- Mentorship

Hard Skills

- R
- Python
- Bash/Shell
- MATLAB
- HTML
- Java
- Markdown
- Git
- SLURM
- HTML Scrubbing
- Data Cleaning
- Bayesian Stats
- Grant Writing

Language

- Spanish

Education and Certificates

Current	**Ph.D. in Computational Biology and Bioinformatics** | Duke University
July 2018	**Cert in Integrative Genomics** | Summer Institute for Statistical Genetics
July 2018	**Cert in MCMC for Statistical Genetics** | Summer Institute for Statistical Genetics
May 2017	**B.S. in Mathematics and B.S. in Biology,** Meredith College, Raleigh, NC

Leadership and Involvement

2019 – Current	**Mentor** | Durham Public School Women in Math Program
2019 – Current	**Communications and Outreach Director** | Triangle Science Share
2019	**Graduate Student Q&A** YouTube Live | Duke Graduate School
2019 – Current	**Seminar Planning Committee** | Computational Biology & Bioinformatics
2019	**Alumni Networking Panel & Reception Committee** | Bouchet Society
2018 – Current	**Few-Glasson Alumni Society Selection Committee** | Duke Graduate School
2018 – Current	**Faculty Mentor Award Selection Committee** | Duke Graduate School
2018 – Current	**Dean's Awards Selection Committee** | Duke Graduate School
2018	**Gordon G. Hammes Teaching Selection Committee** | Duke Graduate School
2018	**Retreat Planning Committee** | Computational Biology & Bioinformatics
2018	**Graduate Student** Welcome Panel | Duke Graduate School

Honors and Awards

2017 – Current	**Duke BioCoRE Scholar**
2017	**Deborah K. Smith Award for Achievement in Biology** | Meredith College
2017	**Ford Foundation Fellowship Honorable Mention**
2016	**Who's Who Among Students in American Universities and Colleges**
2016	**Beta Beta Beta** | National Biological Honor Society
2016	**Pi Mu Epsilon** | National Mathematics Honor Society
2016	**Outstanding Student Researcher of the Year** | NC Central University

Teaching Experience

August 2018/ August 2019 — **Data Carpentries Teacher's Assistant**
Assisted during a Bootcamp for a University program for genomics and genetics at Duke University. This Bootcamp included curriculum that covered Unix command line, programming in python using jupyter, data and project organization, and version control with Git.

2017 – Current — ***Tech Assistant/Instructor, Black Girls Code***
Volunteer to help organize, set up, and teach girls ages 7-17 about the basic principles behind coding, computer science, and engineering. Serve as a role model for girls by sharing my expertise and relevant experience.

Publications

Patrick D. McMullen, Melvin E. Andersen, Brian Cholewa, Harvey J. Clewell, Katherine M. Dunnick, Jessica K. Hartman, Kamel Mansouri, **Melyssa S. Minto**, Chantel I. Nicolas, Martin B. Phillips, Scott Slattery, Miyoung Yoon, Rebecca A. Clewell,Evaluating opportunities for advancing the use of alternative methods in risk assessment through the development of fit-for-purpose in vitro assays. Toxicology in Vitro (48).2018

Melyssa Minto, Michele Josey, Clarlynda Williams-DeVane. *MonoInc: Monotonic Increasing*. (2016). R package version 1.1. https://CRAN.R-project.org/package=MonoInc

Seminar/Conference Presentations

Sep 2019 — **Computational methods to model the dynamic binding of the Zic Transcription Factor in Postnatal Development of the** Cerebellum \| Duke Neurobiology Retreat and Duke Computational Biology and Bioinformatics Retreat

April 2019 — **Bioinformatic analysis of H3K27me3 and H3K27ac dynamics of postnatal development of cerebellum** \| IRTG Dissecting and Reengineering the Regulatory Genome

February 2017 — **Cray Cray Morphometrics: Advancing Morphometric Delimitation of Species of Crayfish** \| Shaw University Research Symposium

November 2016 — **Cleaning Electronic Medical Records Using Novel R Package MonoInc** \| Annual Biomedical Research Conference for Minority Students

May 2016 — **MonoInc: An R Package** \| North Carolina Central University

May 2016 — **A Study of the Risks of Teenage Pregnancy in the U.S.** \| Meredith College Celebrating Student Achievement Day (CSA Day)