

# Ronan Perry

## Curriculum Vitae

Johns Hopkins University

Baltimore, MD

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📁 [rflperry.github.io](https://github.com/rflperry)

🌐 [github.com/rflperry](https://github.com/rflperry)

### Education

- 2016–present **BS, Biomedical Engineering and BS, Applied Mathematics**, *Johns Hopkins University*, Baltimore, MD.
- 2018, Fall **Study Abroad Experience**, *Technical University of Denmark*, Lyngby, DK.

### Experience

#### Academic Research

- 2019 **Research Assistant**, *Johns Hopkins University*, Neurodata.  
-Created simulations to validate performance of novel random forest algorithm  
-Explored methods for generating and discriminating between low dimensional representations of brains
- 2018 **Research Intern**, *EPFL*, MIP:Lab.  
-Developed pipeline to automatically segment non-human primate brain tissue classes.  
-Utilized novel dynamic functional connectivity tools to identify spatial and temporal patterns in the brain
- 2018 **Research Assistant**, *Johns Hopkins Medical*, Popel Lab.  
-Obtained data on NSCLC from literature and Fit a PKPD MATLAB model.
- 2015 **Research Intern**, *Boyce Thompson Institute*, Fei Lab.  
-Developed scripts to investigate genetic sources of cucurbit diseases resistance.

#### Internships

- 2017 **Software Intern**, *Rheonix Inc.*, Ithaca, NY.  
-Worked in agile development team fixing product software bugs and testing new releases.  
-Trained image classification model to improve accuracy and robustness.
- 2016 **Software Intern**, *URSA Space Systems*, Ithaca, NY.  
-Created probabilistic geospatial MATLAB model linking objects to identification data.  
-Developed pipeline to automatically populate database.

### Teaching

- 2019 **Teaching Assistant**, *Johns Hopkins University*.  
Applied Math 430: Intro to Statistics
- 2018 **Teaching Assistant**, *Johns Hopkins University*.  
Applied Math 420: Intro to Probability
- 2017 **PILOT Leader**, *Johns Hopkins University*.  
Multivariate Calculus tutor

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## Service

- JHU Splash: Taught custom classes to local highschoolers

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## Honors

- Dean's List (2016-2019)

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## Computer Skills

Computing Python, R, Java, MATLAB  
Other  $\LaTeX$ , Unix, Github, git, Word