

Ronan Perry

Curriculum Vitae

Johns Hopkins University

Baltimore, MD

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📁 rflperry.github.io

🌐 github.com/rflperry

Education

- 2016–present **BS, Biomedical Engineering and BS, Applied Mathematics**, *Johns Hopkins University*, Baltimore, MD.
GPA: 3.92
- 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.

Preprints

- [1] Ronan Perry, Tyler M. Tomita, Jesse Patsolic, Benjamin Falk, and Joshua T. Vogelstein. Manifold forests: Closing the gap on neural networks, 2019. URL: <https://arxiv.org/abs/1909.11799>.

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

Service

- JHU Splash: Taught custom classes to local highschoolers

Honors

- Dean's List (2016-2019)

Technical Skills

- Computing Python, R, Java, MATLAB
- Other Unix, Github, git, L^AT_EX