

Ronan Perry

Curriculum Vitae

Johns Hopkins University

Baltimore, MD

✉ rperry27@jhu.edu

📁 rflperry.github.io

🌐 github.com/rflperry

Education

- 2020 **B.S. Applied Mathematics & Statistics**, *Johns Hopkins University*, Baltimore, MD.
- 2020 **M.S.E. Biomedical Data Science**, *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.
- Current
 - Compared performance of novel random forest algorithm against traditional ML and DL methods
 - Explored methods for generating and discriminating between low dimensional representations of fMRI data
- 2018 **Research Intern**, *Ecole Polytechnique Federale de Lausanne*, MIP:Lab.
 - Developed pipeline to automatically segment non-human primate brain tissue classes.
 - Deconvolved fMRI signals 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.

Industry Internships

- 2017 **Software Intern**, *Rheonix Inc.*, Ithaca, NY.
 - Optimized image classification model parameters to improve accuracy and robustness.
- 2016 **Software Intern**, *URSA Space Systems*, Ithaca, NY.
 - Created probabilistic geospatial MATLAB model linking objects to identification data.

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