

Ronan Perry

Curriculum Vitae

Johns Hopkins University

Baltimore, MD

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📁 rflperry.github.io

🌐 github.com/rflperry

Education

- Expected 2020 **B.S. Applied Mathematics & Statistics**, *Johns Hopkins University*, Baltimore, MD.
GPA: 3.92
- Expected 2020 **M.S.E. Biomedical Data Science**, *Johns Hopkins University*, Baltimore, MD.

Experience

Academic Research

- 2019– **Research Assistant**, *Johns Hopkins University*, NeuroData.
- Current -Compared performance of novel random forest algorithm against traditional ML and DL methods
-Utilized multiview learning techniques for generating low dimensional, discriminable 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.
-Collected data on NSCLC from literature and fit a PKPD MATLAB model
- 2015 **Research Intern**, *Boyce Thompson Institute*, Fei Lab.
-Developed Perl 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 model linking ships detected in satellite images 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