

Ronan Perry

Johns Hopkins University, Baltimore, MD

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Education

Johns Hopkins University

M.S.E. BIOMEDICAL DATA SCIENCE

Baltimore, MD

Expected May 2020

- **GPA:** 4.0/4.0

Johns Hopkins University

B.S. APPLIED MATHEMATICS & STATISTICS

Baltimore, MD

Dec 2019

- **GPA:** 3.93/4.0
- Dean's List: 2016-2019

Technical University of Denmark

STUDY ABROAD EXPERIENCE

Copenhagen, DK

Fall 2018

Research Experience

Johns Hopkins: NeuroData Lab

RESEARCH ASSISTANT

Baltimore, MD

Jan. 2019 - Current

- Benchmarked performances of machine/deep learning algorithms against custom random forest algorithm
- Developed Python package *mvlearn*, a suite of multiview machine learning tools, as team leader
- Identified statistically significant differences using R in large-scale noisy datasets of patient populations
- Developed and documented tools and proper tests to maintain multiple lab Python packages

Ecole Polytechnique Federale de Lausanne: Medical Image Processing Lab

RESEARCH INTERN

Geneva, Switzerland

May 2018 - Aug 2018

- Expedited lab analyses by creating automated image segmentation pipeline in MATLAB
- Identified spatial correlation patterns in large high-dimensional time-series data using cloud computing servers

Johns Hopkins: Popel Systems Biology Lab

RESEARCH ASSISTANT

Baltimore

Sept 2018 - Dec 2018

- Collected data on NSCLC from literature and fit a PKPD MATLAB model

Boyce Thompson Institute: Fei Lab

RESEARCH INTERN

Ithaca NY

June 2015 - Aug 2015

- Developed Perl and Bash scripts to identify genetic recombination hotspots

Professional Experience

Rheonix Inc.

SOFTWARE DEVELOPMENT INTERN

Ithaca, NY

May 2017 - Aug 2017

Earth & Planetary Sciences, Cornell University

TEMPORARY SERVICE TECHNICIAN

Ithaca, NY

Aug 2016 - Sep 2016

URSA Space Systems

SOFTWARE DEVELOPMENT INTERN

Ithaca, NY

Apr 2016 - Aug 2016

Teaching

- 2019 **Teaching Assistant**, Applied Math 430: Intro to Statistics
- 2018 **Teaching Assistant**, Applied Math 420: Intro to Probability
- 2017 **Group Tutor**, Multivariate Calculus
- 2018-19 **SPLASH Teacher**, Custom Classes for local High schoolers

Johns Hopkins

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Awards

2020 **Fellow**, Impact Fellowship
2019 **1st Place**, IDIES Machine Learning Visualization Hackathon
2018 **4th Place**, HopHacks Data Science Challenge

NYC

Presentations

Baltimore Innovation Week

USING GOOGLE MAPS API TO MAP AND VISUALIZE HEALTH CLINIC ACCESSIBILITY IN BALTIMORE

Baltimore, MD

Oct. 2017

Neurodata Weekly Lab Presentation

GENERALIZED CANONICAL CORRELATION ANALYSIS AND ITS APPLICATIONS TO FMRI DATA

Baltimore, MD

August 2019

Software

mvlearn A comprehensive and tested *Python* library for multiview learning methods. Available on PyPi and at mvlearn.neurodata.io

Publications

Preprints

[1] **Ronan Perry**, T. M. Tomita, J. Patsolic, B. Falk, and J. T. Vogelstein. *Manifold Forests: Closing the Gap on Neural Networks*. 2019. arXiv: 1909.11799.

Conference Abstracts

[1] **Ronan Perry**, L. Daumail, J. Zorn, D. S. Margulies, J. T. Vogelstein, and A. Lutz. *Identifying Differences Between Expert and Novice Meditator Brain Scans via Multiview Embedding*. 2020.

Skills

Programming Python, R, Java, MATLAB, Perl
Other Bash, Github, \LaTeX , Inkscape