

Ronan Perry

Johns Hopkins University, Baltimore, MD

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Education

Johns Hopkins University

B.S. APPLIED MATH & STATISTICS

M.S. BIOMEDICAL DATA SCIENCE

- **GPA:** 3.92/4.0

Baltimore, MD

Expected Dec 2019

Expected May 2020

Technical University of Denmark

STUDY ABROAD EXPERIENCE

Copenhagen, DK

Fall 2018

Research Experience

NeuroData Lab at Johns Hopkins

RESEARCH ASSISTANT

Baltimore, MD

Jan 2019 - Current

- Validated custom random forest algorithm accuracy against other ML algorithms and CNNs
- Developing functionality and tests of Python package for inference on multiview data
- Implemented computationally efficient embedding algorithm to analyze large datasets

Ecole Polytechnique Federale de Lausanne: Medical Image Processing Lab

RESEARCH INTERN

Geneva, Switzerland

May 2018 - Aug 2018

- Developed pipeline to automatically segment non-human primate brain tissue classes
- Deconvolved fMRI signals to identify spatial-temporal correlation patterns in the brain

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 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 **Peer Group Tutor**, Multivariate Calculus
- 2018-19 **SPLASH Teacher**, Custom Classes for local High schoolers

Johns Hopkins

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Honors & Awards

2016-19 **Deans List**, Johns Hopkins University
2019 **1st Place**, IDIES Machine Learning Visualization Hackathon
2018 **4th Place**, HopHacks Data Science Challenge

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

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>.

Skills

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