Ronan Perry

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Education

Johns Hopkins UniversityBaltimore, MD

M.S.E. BIOMEDICAL ENGINEERING

May 2020

• Concentration: Biomedical Data Science

• Thesis Title: Manifold-aware Forests: Closing the Gap to Neural Networks

• **GPA:** 4.0/4.0

Johns Hopkins University

Baltimore, MD

B.S. APPLIED MATHEMATICS & STATISTICS

Dec 2019

• **GPA:** 3.93/4.0

Dean's List: 2016-2019

Technical University of Denmark Copenhagen, DK

Study Abroad Experience Fall 2018

Research Experience

NeuroData Lab, Johns Hopkins University

Baltimore, MD

RESEARCH ASSISTANT Jan. 2019 - Current

Reproducible data science and open source software development related to the theory of random forests and statistical analyses of fMRI data.

Medical Image Processing Lab, Ecole Polytechnique Federale de Lausanne

Geneva, Switzerland

Research Intern May 2018 - Aug 2018

Created automated image segmentation pipeline in MATLAB to expedite analyses and identified spatial correlation patterns in processed fMRI data.

Popel Systems Biology Lab, Johns Hopkins Medical Institute

Baltimore

RESEARCH ASSISTANT

Sept 2018 - Dec 2018

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

Fei Lab, Boyce Thompson Institute

Ithaca NY

RESEARCH INTERN

June 2015 - Aug 2015

Developed Perl and Bash scripts and identified genetic recombination hotspots.

Professional Experience _____

Rheonix Inc. Ithaca, NY

SOFTWARE DEVELOPMENT INTERN

May 2017 - Aug 2017

Optimized image classifier and automated hardware failure identification system.

Earth & Planetary Sciences, Cornell University

Ithaca, NY

TEMPORARY SERVICE TECHNICIAN

Aug 2016 - Sep 2016

Created tool to automatically align video and text data.

URSA Space Systems Ithaca, NY

SOFTWARE DEVELOPMENT INTERN Apr 2016 - Aug 2016

Improved object recognition algorithm for satellite images and created combinatorial optimization model.

AUGUST 28, 2020 RONAN PERRY · CURRICULUM VITAE

2019	Teaching Assistant , Applied Math 430: Intro to Statistics	Johns Hopkins
2018	Teaching Assistant , Applied Math 420: Intro to Probability	Johns Hopkins
2017	Group Tutor , Multivariate Calculus	Johns Hopkins
2018-19	SPLASH Teacher , Planned and taught custom Classes for local high schoolers	Johns Hopkins
Awar	ds	
2020	Fellow, Impact Fellowship	NYC
2019	1st Place , IDIES Machine Learning Visualization Hackathon	Johns Hopkins
2018	4th Place , HopHacks Data Science Challenge	Johns Hopkins
Prese	ntations	
Organization for Human Brain Mapping Conference		Virtual
Identifying Differences Between Expert and Novice Meditator Brain Scans		June 2020
Baltimore Innovation Week		Baltimore, MD
USING TH	E GOOGLE MAPS API TO MAP AND VISUALIZE HEALTH CLINIC ACCESSIBILITY IN BALTIMORE	Oct. 2017
Softw	1210	

mvlearn mvlearn.neurodata.io

Publications

Preprints

[1] **Ronan Perry**, G. Mischler, R. Guo, T. Lee, A. Chang, A. Koul, C. Franz, and J. T. Vogelstein. *mvlearn: Multiview Machine Learning in Python*. 2020. arXiv: 2005.11890 [stat.ML].

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

[2] **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 [cs.LG].

Accepted 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*. OHBM, 2020.