

Dan Adler

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EDUCATION

PhD, Information Science 2019-Present

Cornell University

Researching novel methods to interpret deep learning models for behavioral health. Advised by Tanzeem Choudhury in the People-Aware Computing Lab. Based at Cornell Tech in New York City.

Bachelor of Science, GPA 3.91/4.00 2016

The Johns Hopkins University

Double Major in Biomedical Engineering (BME) and Applied Mathematics and Statistics (AMS), minor in Computer Science (CS), specializations in computational biology and optimization.

INDUSTRY EXPERIENCE

Educator & Course Developer 2018-2019

Coder Academy

- Developed a two-year technology innovation boot camp for a large organization within Australia
- Created data science courses and workshops to upskill adults on industry-relevant problems

Associate, Advisory Analytics 2016-2018

PricewaterhouseCoopers

- Drove large investments into community health by working with provider systems to analyze their patient populations using public/proprietary datasets, machine learning and simulation
- Worked on the creation of an application in PySpark hosted on a hadoop-environment to perform automated optimization and data mashing using a set of linear programming and k-nearest neighbor based algorithms
- Performed data cleaning and merging for a large pharmaceutical company to better track their product performance
- Investigated the use of an Agent Based Model (ABM) to assess the market potential for a new Pharmacogenomic (PGx) test

Researcher 2013-2014

Kennedy Krieger Neuroscience Department

- Researched the long-term effects of developmental brain injury using mouse models and patient EEGs

Researcher

2013

The Children's Hospital of Philadelphia Center for Autism Research (CAR)

- Analyzed the effects of biological reward on adults and children with and without Autism Spectrum Disorders (ASD) through preparing simulations and studying fMRI's

LEADERHIP

Cornell IS Grad. Student Association Admissions Representative, 2020-2021

Tau Beta Pi Maryland Alpha Chapter President, 2015-2016

Johns Hopkins Clinic Scheduling Team Leader, 2014-2016

THREAD Head of Family, 2015-2016

PROFESSIONAL ORGANIZATIONS

Tau Beta Pi Engineering Honors Society, 2014-Present

Upsilon Pi Epsilon Honor Society, 2016-Present

HONORS & AWARDS

University Honors, Spring 2016

Biomedical Engineering Departmental Honors, Spring 2016

Applied Mathematics and Statistics Departmental Honors, Spring 2016

Dean's List, Fall 2012 - Spring 2016

Biomedical Engineering Richard J. Johns Award, Spring 2016

Applied Mathematics and Statistics Mathematical Modeling Award, Spring 2015

TEACHING EXPERIENCE

Cornell Tech CS 5304 Data Science in the Wild, Spring 2020

Coder Academy Australia Post Tech Academy, Intro to Python and Machine Learning, 2019

PwC R Bootcamp, Spring 2017, Python Bootcamp, Fall 2017, Spring 2018

TEALS, Microsoft Philanthropies Introduction to Computer Science, Fall 2017, Spring 2018

Johns Hopkins BME 580.222 Signals, Systems and Controls, Spring 2016

Johns Hopkins AMS 550.111 Statistical Analysis 1, Fall 2015

PUBLICATIONS

[In pre-print] Adler D. A., Ben-Zeev D., Tseng W., Kane J. M., Brian R., Campbell A. T., Hauser M., Scherer E. A., Choudhury T. (2020). Predicting Early Warning Signs of Psychotic

Relapse from Passive Sensing Data: An Approach Using Encoder-Decoder Neural Networks. *JMIR Preprints*. doi: 10.2196/preprints.19962

Kang S. K., Ammanuel S., **Adler D. A.**, Kadam S. D. (2020). Rescue of PB-resistant neonatal seizures with single-dose of small-molecule TrkB antagonist show long-term benefits. *Epilepsy Research*, 159, 106249. doi: 10.1016/j.eplepsyres.2019.106249

Kang S., Ammanuel S., Thodupunuri S., **Adler D. A.**, Johnston M. V., Kadam S. D. (2018). Sleep dysfunction following neonatal ischemic seizures are differential by neonatal age of insult as determined by qEEG in a mouse model. *Neurobiology of Disease*, 116, 1-12. doi: 10.1016/j.nbd.2018.04.012

Ammanuel S., Chan W. C., **Adler D. A.**, Lakshamanan B. M., Gupta S. S., Ewen J. B., Johnston M. V., Marcus C. L., Naidu S., Kadam S. D. (2015). Heightened Delta Power during Slow-Wave-Sleep in Patients with Rett Syndrome Associated with Poor Sleep Efficiency. *PLoS ONE*, 10(10): e0138113. doi: 10.1371/journal.pone.0138113

Adler D. A., Ammanuel S., Lei J., Dada T., Borbiev T., Johnston M., Kadam S. D., Burd I. (2014). Circadian cycle dependent EEG biomarkers of pathogenicity in adult mice following prenatal exposure to in utero inflammation. *Neuroscience*, 275, 305–313. doi: 10.1016/j.neuroscience.2014.06.022