

MILES TURPIN

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EDUCATION

Duke University

expected May 2020

B.S. in Data Science, B.S. in Mathematics, Minor in Philosophy — Cumulative GPA: 3.3

- Relevant coursework: *High Dimensional Data* — *Artificial Intelligence* — *Data Science* — *Statistics* — *Databases* — *Algorithms* — *Data Structures & Algorithms* — *Advanced Probability* — *Discrete Math* — *Linear Algebra* — *Multivariable Calculus* — *Complex Systems @ MIT*
- Spring coursework: *Machine Learning (Graduate level)* — *Bayesian Statistics*

Honors

- *Judge's Pick* at American Statistical Association DataFest at Duke Spring 2018
- *Best Insight* at American Statistical Association DataFest at Duke Spring 2019

EXPERIENCE

Carin Research Group, Information Initiative at Duke (iiD)

June 2018 - Present

Machine learning researcher

Duke University

- Building machine learning models on time series EHR data to predict likelihood of emergency surgery for patients with a severe stomach complication (SBO), advised by Dr. Lawrence Carin and Dr. Matthew Englehard. *Paper forthcoming.*
- Compiled the largest and most detailed dataset of SBO patients for analysis.

Future of Humanity Institute, University of Oxford

May 2018 - Sept 2018

Machine learning researcher

- Used machine learning to identify lab-specific signatures of engineered DNA to predict its lab-of-origin. *Paper forthcoming* – *Plasmid Attribution: Toward Accountability in Genetic Engineering.*
- Beat the state-of-the-art by 20 points (68% accuracy).
- Leveraged AWS for parallel web scraping and model training

Industry Activity by US Metropolitan Area

April 2018

Team lead

Duke University

- Identified industry hotspots across US metropolitan areas using job posting data from Indeed; see Github.
- Awarded *Judge's Pick* at American Statistical Association DataFest at Duke. Competed against over 400 students, over half of which were Master's students.

Predicting Seasonal Fatigue

April 2019

Team lead

Duke University

- Built personalized models for each player on the Canadian National Women's Rugby Team to understand each individual's predictors of fatigue over the course of the season; see Github.
- Awarded *Best Insight* at American Statistical Association DataFest at Duke. Competed against over 400 students.

Effective Altruism: Duke

Spring 2017 - Present

President

Duke University

- Created and currently run the first iteration of the Arete Fellowship, a selective program offering an accelerated introduction to Effective Altruism for students who are motivated to think rationally about how to have a significant positive impact on the world. See eaduke.org/faq.

TECHNICAL SKILLS

Programming Languages Software & Packages

Python, R, SQL, Scheme
Tensorflow, Scikit-learn, Pandas, Numpy, Git, Tableau

ACTIVITIES

Philosophy Society*Exec Member*

Spring 2017 - Present

Duke University

- Organized a discussion between two prominent philosophers on the existence of God, attended by 100+ students.

Duke Triathlon

Fall 2017 - Present

- Completed an Ironman 70.3 in Patagonia in March 2018.