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

RESEARCH EXPERIENCE

Dynamic Risk Prediction   June 2018 - Present
Carin Research Group, Information Initiative at Duke (iiD) & Duke Surgery   *Durham, NC*

· 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.

Plasmid Attribution: Toward Accountability in Genetic Engineering   June 2018 - Sept 2018
Future of Humanity Institute, Oxford University

· 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
Judge's Pick   *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.

TECHNICAL SKILLS

Programming Languages	Python, R, SQL, Scheme
Software & Packages	Tensorflow, Scikit-learn, Pandas, Numpy, Matplotlib, Git, Tableau

ACTIVITIES & LEADERSHIP

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.*

· Coordinated activities resulting in 9 people taking the Giving What We Can pledge (donating 10% of future income to effective charities).

Philosophy Society   Spring 2017 - Present
Exec Member   *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