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

IBM Research Cambridge, Learning Health Systems   Starting May 2019
Incoming machine learning researcher   *Cambridge, Boston*

· Will apply deep learning to healthcare applications

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