MILES TURPIN

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EDUCATION

Duke University *expected May 2020*
B.S. in Data Science, B.S. in Mathematics, Minor in Philosophy — Overall GPA: 3.160
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*

EXPERIENCE

Carin Lab – Information Initiative at Duke (iiD) June 2018 - Present
Machine learning researcher *Duke University*

· The Carin Lab at Duke University works on machine learning projects in everything from healthcare to bomb detection. Overseen by Dr. Lawrence Carin, one of the world's most widely-published machine learning researchers.
· 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

· The Future of Humanity Institute is a multidisciplinary research institute at the University of Oxford that uses the tools of mathematics, philosophy and social sciences to bear on big-picture questions about humanity and its prospects.
· 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).

Effective Altruism: Duke Spring 2017 - Present
President *Duke University*

· Effective Altruism: Duke directs exceptional Duke undergraduates and graduates to consequential career paths in global poverty, artificial intelligence safety, biosecurity, and more.
· Created and am running 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.*
· Helped get 9 people to take the Giving What We Can pledge (donating 10% of future income to effective charities).

AWARDS

American Statistical Association DataFest April 2018
Winner *Duke University*

· Identified industry hotspots across US metropolitan areas using job posting data from Indeed; see Github.
· Competed against over 400 students, over half of which were Master's students.

TECHNICAL SKILLS

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

ACTIVITIES

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.

Jazz piano and music production