

Samuel Sharpe

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Education

Columbia University

M.S. in Computer Science, GPA: 3.86

- Machine learning specialization

New York, NY

Expected May 2020

Columbia University

B.S. in Operations Research, GPA: 3.98, Magna Cum Laude

- Stephen D. Guarino Memorial Award in Industrial Engineering - Awarded to a senior with outstanding academic achievement and potential.

New York, NY

Sep. 2013 - May 2015

Oberlin College

B.S. in Mathematics, Economics Minor, GPA: 3.63

Oberlin, OH

Sep. 2010 - May 2013

Skills

Programming/Technology

Python, R/RShiny, MATLAB, SQL, Airflow, Docker; Exposure to Kubeflow, Java, MongoDB, AMPL

Quantitative

Machine Learning, Optimization, NLP, Deep Learning, Stochastic Modeling, Speech Processing

Research & Publications

Publications

- Visual natural language query auto-completion for estimating instance probabilities.
Samuel Sharpe, Jin Yan, Fan Wu, Iddo Drori; CVPR Language and Vision Workshop, 2019.

Course Research

- Stylometry in the Modern Era: Coreference and Voice for Authorship Attribution. Spring 2019.
- Meta-Learning for Online Clustering. Spring 2020.

SiteRx

Jan. 2019 – May. 2019

- Business to business start-up that connects patients with clinical trial sites through their physician.
- Research focuses on natural language processing of medical record text for deidentification.

Experience

Major League Baseball Advanced Media (MLBAM)

New York, NY

Data Scientist

June 2018 - Present

- Deployed pitch classification neural network in Tensorflow and custom endpoints for live pitch classification locally at ballparks.
- Created player matchup prop bet lines that outperform predictions from industry leaders in sports betting.
- Designed pitch arsenal identification system using clustering and classification to detect when pitchers add new pitches to their arsenal.

Booz Allen Hamilton

Washington, DC

Lead Data Scientist

Jul. 2018 - Sep. 2018

- Oversaw development of a resource reallocation MIP model to optimize Immigration Judge (IJ) caseloads and shorten case times.
- Implemented a PoC IJ scheduling optimization (IP) designed to reduce rescheduled hearings for the Department of Justice (DOJ).

Staff Data Scientist / Modeling & Analysis Team Lead

Jan. 2017 - Jun. 2018

- Formulated and implemented a multi-objective optimization model in MATLAB that presents leadership with tradeoffs between operational and budgetary objectives through sets of pareto-optimal resource allocations.
- Model endorsed by Department of Homeland Security (DHS) and awarded a DHS funded Winter Study.

Data Scientist

Sep. 2015 - Dec. 2016

- Led implementation of probabilistic forecasts to inform risk-oriented budgeting that prevented over-appropriation.
- Utilized NLP, clustering, queuing simulation, and other techniques in R and Python on ad-hoc projects influencing client strategy.

Mindshare

New York, NY

Data Analytics Intern

Jun. 2014 - May 2015

- Developed attribution models to influence media spend and visualized twitter word-brand associations with NLP techniques.