

YIREN LU

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EDUCATION

Columbia University New York, NY • MS in Computer Science, thesis with John Paisley and David Blei, 2015
Harvard University Cambridge, MA • AB in Mathematics, Secondary in Computer Science, 2013

WORK EXPERIENCE

Uber

Software Engineer, Observability (September 2016-Present)

- Built Go service for automatic algorithm selection of forecasting algorithms.
- Built both frontend and backend components of backtesting framework for alerts.
- Improved resiliency and reliability of our anomaly detection system, F3, by building out an extensive staging environment.
- Added multi-model support and finer grained controls for F3.

Data Scientist (August 2015-September 2016)

- Developed, prototyped, tested, and productionalized changepoint detection algorithm for anomaly detection in timeseries.
- Drove customer adoption and customer support of anomaly detection use in alerting and monitoring.
- Owned calculation of KPI's and model performance analysis.

Data Science Intern (June 2014-August 2014)

- Built and validated probabilistic model for inferring rider destinations.
- Built backend of data dashboard for the Uber API team.

BuzzFeed

Data Science Intern (June 2013-August 2013)

- Designed and implemented data visualizations and interactive posts for the BuzzFeed website.
- Implemented natural language processing algorithm for the DiscoTech ad-push platform.

Harvard University Department of Biostatistics, Professor Curtis Huttenhower

Research Assistant (August 2012-May 2013)

- Developed the quantitative evaluation suite for MaAsLin, a software tool for finding associations between metadata and data while taking into account covariates.

Cisco Systems, Inc.

Engineering Intern (May 2011-August 2011)

- Developed a variation on the IEEE 1588 Clock Servo Algorithm (master-slave clock synchronization) to optimize for Cisco products.
- Modeled the new algorithm in Matlab and transcribed portions into C.

Harvard University School of Engineering and Applied Sciences

Teaching Assistant for AM 101: Statistical Inference and CS 20: Discrete Math (2012)

- Graded problem sets, held office hours, and ran Matlab Bootcamps

PROJECTS AND MISC.

- Hackathon project for *on-demand calculation of hybrid Uber-public transit trips*
- Magazine writing for *The New York Times Magazine* and *New York Magazine*
- 2010 Harvard Undergraduate International Travel Writing Award
- 2012 Harvard Program for Research in Science and Engineering Fellow