Arlene Siswanto



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http://arlenesiswanto.me

COURSEWORK

Graduate Level

- 6.435 Bayesian Modeling and Inference
- 6.883 Machine Learning
- 6.864 Natural Language Processing
- 6.819 Computer Vision
- 6.840 Theory of Computation
- 6.857 Computer Security
- 6.S974 Decentralized **Applications**

Mathematics

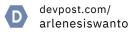
- 18.650 Statistics
- 18.615 Stochastic Processes
- 18.600 Probability
- 18.065 Matrix Methods for Data Analysis and ML

SKILLS

Languages - Python, JavaScript, C++, Java, Matlab, R Tools - PyTorch, JAX, Keras, Scikit-learn, React, Angular

HACKATHONS

HackPrinceton '18 - Best AR/VR Hack, 1517 Fund Prize PennApps '17 - PennApps Second Place Overall HackMIT '17 - Best Travel App HackPrinceton '17 - Best Internet of Things Hack MakeMIT '17 - Top 10 Hack





/in/arlenesiswanto



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EDUCATION

Massachusetts Institute of Technology | Cambridge, MA

Jun '20 - Dec '20

- M.Eng. in Artificial Intelligence, Advisers: Michael Carbin and Jonathan Frankle
- Thesis: Block Sparsity and Weight Initialization in Neural Network Pruning

Massachusetts Institute of Technology | Cambridge, MA

Sep '16 - May '20

· B.S. in Computer Science and Engineering, Minor in Mathematics

RESEARCH & PUBLICATIONS

Decomposing Variance from Mini-Batch Order and Parameter Initialization Google Arlene Siswanto, Ben Adlam, Lechao Xiao, and Jeffrey Pennington Bay Area Machine Learning Symposium, 2021 (submitted)

Reconciling Sparse and Structured Pruning: A Scientific Study of Block Sparsity MIT Arlene Siswanto, Jonathan Frankle, and Michael Carbin ICLR Workshop — Science and Engineering of Deep Learning (SEDL), 2021

Examining the Role of Normalization in the Lottery Ticket Hypothesis Arlene Siswanto, Jonathan Frankle, and Michael Carbin ICLR Workshop — Science and Engineering of Deep Learning (SEDL), 2021

WORK EXPERIENCE

Google Brain - AI Resident | New York, NY

Feb '21 - present

MIT

· Developed deep learning models, performed large-scale experiments, and wrote publications toward understanding model uncertainty and robustness

DeepMind - Research Platform Intern | London, UK

Sep '19 - Jan '20

- · Developed alongside Research Platform Team on platform that allows researchers to perform an initial analysis of their experiments
- Expanded analyses to support non-scalar tensor data, such as images and arrays

Shell Street Labs - Quantitative Research Extern | Hong Kong

· Predicted IPO market trends through regression, topic modeling, and clustering

Jump Trading - Software Engineering Intern | Chicago, IL Jun '19 - Aug '19

- Developed on equities trading team to automate configuration verification
- · Built standalone trading microplatform with real-time connections to exchanges

Bloomberg - Software Engineering Intern | New York, NY Jun '18 - Aug '18

· Developed on the Execution Management System (EMSX) trading platform, an application used by over 20,000 traders and brokers to execute orders

PROJECTS

Gather Town Fall '20

Early team member (<10) at startup that raised \$26M Series A at \$200M valuation, developing on a social platform that combines video calls with custom 2-D spaces

dormsp.am Spring '19

Platform built for the MIT community that scrapes, parses, and aggregates oncampus events advertised on email with hundreds of weekly users upon release

BeaverDocs Fall '18

A collaborative editor that allows multiple users to edit the same document without a central server using a peer-to-peer broadcasting system