ALEX CHIN

I'm a statistician and data scientist interested in hybrid work that blends engineering, data science, and applied statistics.

WORK EXPERIENCE

Data Science R&D Intern, *Civis Analytics, Chicago, IL* *Summer 2018*

- Developed and engineered scalable statistical methodology for measuring the effectiveness of political ads
- Worked with cross-functional teams across R&D, engineering, and consulting arms to deliver product solutions for commercial and political clients

Core Data Science Intern, Experimental Design and Causal Inference, *Facebook, Menlo Park, CA* *Summer 2017*

- Developed optimal design and analysis tools for experimentation on the Messenger and WhatsApp platforms
- Built regression-adjusted estimators into Facebook's system for adaptive experimentation and Bayesian optimization
- Presented work at the Conference on Digital Experimentation (CODE) in October 2017

Modeling Science Intern, *Quantcast, San Francisco, CA* *Summer 2016*

- Built a MapReduce EM algorithm into the core ML product for large-scale classification in display advertising

RESEARCH

- A. Chin, *Regression adjustments for estimating the global treatment effect in experiments with interference*, arXiv 1808.08683, August 2018.
- A. Chin, *Central limit theorems via Stein's method for randomized experiments under interference*, arXiv 1804.03105, April 2018.
- A. Chin and D. Eckles, *Automatic randomization inference*, in progress.
- A. Chin, D. Eckles, and J. Ugander, *Stochastic seeding strategies in networks*, in progress.

EDUCATION

Stanford University, Ph.D. Statistics, *in progress* *Sept 2014–June 2019 (expected)*

- Passed qualifying exams (August 2015) and filed for candidacy (June 2016)

North Carolina State University, B.S. Mathematics and B.S. Economics, minor in Linguistics *2010-2014*

- Valedictorian, Phi Beta Kappa (inducted as a sophomore), and *summa cum laude*
- Park Scholarship (four-year full scholarship and enrichment program)
- College of Sciences Outstanding Scholarship Award

TECHNOLOGIES

- Tools: Python, R, SQL/Hive/Presto, Java, C/C++, Julia, MATLAB, Unix/Linux, Hadoop/MapReduce
- Technical knowledge: Machine learning, statistical and causal inference, experimental design, adversarial networks, graph and network analysis, Bayesian and variational methods

SELECTED COURSEWORK

- CS 229T: PhD Theory of machine learning (as TA)
- Stats 305C: PhD Multivariate statistics (as TA)
- Stats 305A: PhD Linear models (as TA)
- Applied statistics and modeling
- Theoretical statistics and probability
- Causal inference
- Monte Carlo/MCMC
- Optimization
- Computer systems and programming
- Artificial intelligence