

Winston Chou

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Employment

Senior Data Scientist
Apple

4/2020 –
New York, NY

Research Scientist
Data Scientist
Facebook

9/2019 – 4/2020
12/2018 – 9/2019
Menlo Park, CA · New York, NY

Education

PhD, Political Science
Princeton University

2013 – 2019
Princeton, NJ

Skills

- *Causal inference and experimentation.* Experimental design and analysis, experimentation platforms, observational causal inference,
- *Statistical modeling.* Regression analysis, hierarchical models, Bayesian statistics, maximum likelihood estimation, missing data, variance reduction, data visualization
- *Teamwork and communication.* Cross-functional collaboration, communication, teaching
- *Programming.* R, Python, Spark (via PySpark), SQL, Stan, git, Unix

Work Experience

Apple, Siri Data

- Founding data scientist on Siri's experimentation platform
- Led design, execution, and analysis of first A/B tests for Siri Assistant
- Wrote PySpark statistical library for experiment analysis and visualization

Facebook, Statistics and Privacy R&D

- Drove statistical solutions to missing data in advertising measurement from R&D to launch
- Partnered with global engineering team to implement statistical models in production

Research

Statistical Software & Methodology

1. "Randomized controlled trials with minimal data retention." arXiv.
2. "Sensitive survey questions with auxiliary information," with K. Imai and B. Rosenfeld. 2020. *Sociological Methods & Research* 49(2): 418–454.

3. "List experiments with measurement error," with G. Blair and K. Imai. 2019. *Political Analysis* 27(4): 455–480.
4. "list: Statistical methods for the item count technique and list experiment," with G. Blair and K. Imai. *Comprehensive R Archive Network*.
5. "Culture remains elusive: On the identification of cultural effects with instrumental variables." 2017. *American Sociological Review* 82(2): 435–443.

Social and Political Science

1. "Why parties displace their voters: Gentrification, coalitional change, and the demise of public housing," with R. Dancygier. Forthcoming. *American Political Science Review*.
2. "Competing for loyalists? How party positioning affects populist radical right voting," with R. Dancygier, N. Egami, and A. Jamal. Forthcoming. *Comparative Political Studies*.
3. "Seen like a state: How illegitimacy shapes terrorism designation." 2016. *Social Forces* 94(3): 1129–1152.