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## TIMOTHY SUDIJONO

### Education

Ph.D., Statistics, **Stanford University**, 2021 - 2026, expected.  
NSF GRFP. Advised by Sourav Chatterjee.

Sc.B., Applied Mathematics, **Brown University**, 2015 - 2019.  
Magna Cum Laude, Honors. Advised by Kavita Ramanan.

### Employment

Experimentation & Causal Inference Intern, **Netflix**, Summer 2024.  
Experimentation Platform.

Portfolio Implementation, Analyst, **AQR Capital Management**, 2019 - 2021.  
Long Short Equities.

### Research

Statistics: Causal Inference, Neural Networks

### Interests

Probability: Statistical Mechanics, Markov Chains

### Research

\* denotes alphabetical ordering or equal contribution.

8. **T. Sudijono**, S. Ejdemyr, A. Lal, M. Tingley. “Optimizing Returns to Experimentation Programs” (2024). *Working Paper*.
7. **T. Sudijono**, L. Masoero, J. McQueen, S. Vijaykumar, L. Lei, et al. “Regression Adjustments for Experimental Designs in Two-Sided Marketplaces” (2024). *Working Paper*.
6. S. Chatterjee\*, **T. Sudijono**\*. “Minimum-Description Length Interpolators for Neural Networks Generalize on Structured Data.” (2024). *Draft available upon request*.
5. S. Chatterjee\*, **T. Sudijono**\*. “Non-Identifiability distinguishes Neural Networks among Parametric Models” (2024+). *Draft available upon request*.

4. L. Lei\*, **T. Sudijono**\*. “Synthetic Control Inference via Refined Placebo Tests” (2024). *Submitted*. Accepted at CODE@MIT 2023, ACIC 2024, Cal Metrics 2024. [ArXiv software](#)
3. **T. Sudijono**. “Fluctuation Bounds in the Restricted Solid-on-Solid Model of Surface Growth” (2023). *Submitted*. [ArXiv](#)
2. W. S. Tang\*, G. M. da Silva\*, H. Kirveslahti, E. Skeens, B. Feng, **T. Sudijono**, K. Yang, S. Mukherjee, B. Rubinstein, L. Crawford. “A Topological Data Analytic Approach for Discovering Biophysical Signatures in Protein Dynamics” (2022). *PLOS Computational Biology*. [BioArXiv](#)
1. B. Wang\*, **T. Sudijono**\*, H. Kirveslahti\*, T. Gao, D. M. Boyer, S. Mukherjee, and L. Crawford. “A statistical pipeline for identifying physical features that differentiate classes of 3D shapes” (2021). *Annals of Applied Statistics*. [BioArxiv Journal software](#)

Grants,  
Honors,  
& Awards

NSF GRFP Fellow, 2021-2024  
 Rohn Truell Premium Prize, 2019 (Top Brown Applied Math Graduate)  
 Phi Beta Kappa, 2019  
 Brown University Junior Calculus Exam Prize 2018  
 Karen T. Romer Undergraduate Teaching and Research Award, 2017  
 William Lowell Putnam Exam Top 150, 2015

Teaching

6. Theory of Statistics II (Graduate) TA, Stanford, Winter 2024.
5. Probability Qualifying Exam Coaching, **Instructor**, Stanford, Summer 2023
4. Graduate Probability Department Tutor, Stanford, Spring 2023, Autumn 2023.
3. Theory of Probability II (Graduate) TA, Stanford, Winter 2023
2. Theory of Probability I (Graduate) TA, Stanford, Fall 2022
1. Time Series Analysis TA, Stanford, Fall 2021

Contributed &  
Invited Talks

1. *Synthetic Control Inference via Refined Placebo Tests.*

Stanford-Berkeley Causal Panel Data Conference, October 2023. CODE@MIT Slam + Poster Session, November 2023. Stanford Causal Science Conference, November 2023. Stanford GSB Data Driven Decisions Seminar, February 2024. Professor Art Owen's Stanford Group Meeting, June 2024. Netflix MLIR Seminar, July 2024. California Econometrics Conference, Sept. 2024

**Skills**            Programming: Python • R

**Outreach**        Stanford Future Advancers of Science and Technology, Mentor, 2022