Department of Statistics,
390 Jane Stanford Way,
Stanford University,
Stanford, CA 94305-4020.

tsudijon@stanford.edu ✉
tsudijon.github.io 🌐
tsudijon ⌓

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.

Research Interests

Probability and Statistics: Statistical Mechanics, Causal Inference, Neural Networks

Research

* denotes equal contribution or alphabetical ordering.

6. S. Chatterjee*, **T. Sudijono***. "Non-Identifiability distinguishes Neural Networks among Parametric Models" (2024). *Draft available upon request.*

5. L. Lei*, **T. Sudijono***. "Synthetic Control Inference via Refined Placebo Tests" (2024). *Working Paper.*
ArXiv software

4. **T. Sudijono**. "Fluctuation Bounds in the Restricted Solid-on-Solid Model of Surface Growth" (2023). *Submitted.*
ArXiv

3. 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

2. 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

1. **T. Sudijono**. "Stationarity and Ergodicity of Local Dynamics of Interacting Markov Chains on Large Sparse Graphs" (2019). *Undergraduate thesis.*
   manuscript 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

5. *Synthetic Control Inference via Refined Placebo Tests*, Stanford GSB Data Driven Decisions Seminar, Winter 2024

4. *Synthetic Control Inference via Refined Placebo Tests*, Stanford Causal Science Conference, November 2023

3. *Synthetic Control Inference via Refined Placebo Tests*, CODE@MIT Slam + Poster Session, November 2023

2. *Synthetic Control Inference via Refined Placebo Tests*, Stanford-Berkeley Causal Panel Data Conference, October 2023

1. *Synthetic Control Inference via Refined Placebo Tests*, Stanford Econometrics Lunch Seminar, May 2023

Skills   Programming: Python · R

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

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