

BENGUSU NAR

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EDUCATION

Ph.D. in Statistics and Econometrics, University of Chicago Booth 2024 - 2029

Selected Coursework: Online Learning, Generative Models, Brownian Motion, Bayesian Inference

Honors: Centennial Fellowship — awarded to incoming students with exceptional promise

MBA, University of Chicago Booth Business School 2027 - 2029

Bachelor of Economics and Data Science (BEMACS), Bocconi University 2021 - 2024

GPA: 110/110 with summa cum laude

Honors: Merit Scholarship Recipient (2021-2024)

PUBLICATIONS AND WORKING PAPERS

Dynamic Treatment on Networks

Bengusu Nar, Jiguang Li, Veronika Ročková, Panos Toulis; Advances in Neural Information Processing Systems (NeurIPS), 2026.

Score Regularization with Fisher–Rao Energy (*working paper*)

Bengusu Nar, Bahar Taşkesen, Ya-Ping Hsieh, Veronika Ročková

Establishes a theoretical framework connecting an information-geometric divergence to memorization in diffusion models, enabling principled detection and mitigation.

Synthetic Markets, Real Forecasts: Fisher–Rao Diffusion for Asset Returns (*working paper*)

with Bahar Taşkesen, Teng Andrea Xu, Ya-Ping Hsieh, Veronika Ročková, and Bryan Kelly.

Uses Fisher–Rao-guided diffusion models to generate diverse synthetic return histories. Signals learned from the synthetic series predict real markets beyond traditional momentum and cross-sectional factor strategies.

PRESENTATIONS

Dynamic Treatment on Networks

Network Science in Economics (NSE), Miami 2026

Booth School of Business Student Seminars, Chicago 2026

ISBA World Meeting, Nagoya 2026

Score Regularization with Fisher-Rao Energy

Booth School of Business Student Seminars, Chicago 2027 (scheduled)

26th International Symposium on Mathematical Programming, Amsterdam 2027 (scheduled)

TEACHING EXPERIENCE & ACADEMIC SERVICE

Teaching Assistant, BUSN 36106 Managerial Decision Modeling

Fall 2025, Fall 2026

University of Chicago, Booth School of Business, Chicago, IL

Teaching Assistant, BUSN 41000 Business Statistics

Fall 2026

University of Chicago, Booth School of Business, Chicago, IL

Instructor, Cambridge Math Circle, Cambridge, MA

Sep. 2020 - Jun. 2024

Selected as one of three lead instructors out of 50+ teaching staff across 8 curriculum levels.

Reviewer, DynaFront Workshop Neurips

SKILLS AND LANGUAGES

Technical Skills: Python, Pytorch, R, high-performance computing (Mercury cluster).

Languages: English (Fluent), Turkish (Native), Italian (B1).

OTHER EXPERIENCE

Research Collaboration, *Prof. Omiros Papaspiliopoulos & Prof. Max Goplerud* Sep. 2024 - Dec. 2025

Developed methods for stable uncertainty quantification in high-dimensional generalized linear mixed models.

Research Intern, BayesLab, *Prof. Omiros Papaspiliopoulos*

Nov. 2022 - Jun. 2024

Contributed to Atlas Project (MIT) for large-scale demand estimation.

Research Intern, Bocconi University Finance Department, *Dr. Marta Zava*

Dec. 2023 - Mar. 2024

Analyzed venture capital network formation through Twitter data using NLP transformers.