

Rebecca Farina

rfarina@andrew.cmu.edu
she/her

EDUCATION

Carnegie Mellon University, PhD in Statistics Aug 2022 – May 2027 (Expected)
Advisor: Arun Kumar Kuchibhotla

University of Turin (Dept of Mathematics), MSc in Stochastics and Data Science Sep 2020 – Jul 2022
Final Grade: 110/110 cum laude and honourable mention

Collegio Carlo Alberto, Master in Statistics and Applied Mathematics & Diploma in Economics Sep 2018 – Sep 2022
Awarded with distinction

University of Turin (Dept of Mathematics), BSc in Mathematics for Finance and Insurance Sep 2017 – Jul 2020
Final Grade: 110/110 cum laude

INTERESTS

causal inference; uncertainty quantification; conformal prediction; statistical machine learning; non- and semi-parametric theory; survival analysis; biostatistics; bayesian methods

WORK EXPERIENCE

Roche, Intern in Statistical Modeling and Analytics Summer 2025
Basel, Switzerland
Research topic: Hospital readmission prediction for chronic heart failure management.

Merck, Biostatistics Intern Summer 2024
North Wales, PA
Research topic: Compiling and Evaluating More Efficient Statistical Testing Procedure for Non-Nested Model Selection for Survival Extrapolation and Event Projection.

RESEARCH EXPERIENCE

Farina R., Metelli, S., Mercier, F., Masson, S. (2025) *Dynamic Prediction for Hospital Readmission in Patients with Chronic Heart Failure*. arXiv preprint arXiv:2512.16463.

Farina R., Tchetgen Tchetgen, E.J., Kuchibhotla, A.K. (2025) *Doubly Robust and Efficient Calibration of Prediction Sets for Censored Time-to-Event Outcomes*. arXiv preprint arXiv:2501.04615.

COMPUTER SKILLS AND LANGUAGES

CODING: R, Python (NumPy, SciPy, Pandas, Scikit-learn, PyTorch, TensorFlow, Keras, Jax, NumPyro), Git, SQL

LANGUAGES: Italian (native), English (fluent)

ACADEMIC EXPERIENCE

Teaching Assistant at Carnegie Mellon University

36-490: Undergraduate Research	Fall 2025
36-672: Computational Statistical Methods in Life Sciences	Spring 2025
36-225: Introduction to Probability Theory	Fall 2024
36-219: Probability Theory and Random Processes	Spring 2024
36-235: Probability and Statistical Inference I	Fall 2023
36-226: Introduction to Statistical Inference	Spring 2023
36-235: Probability and Statistical Inference I	Fall 2022

HONORS & AWARDS

FDA-OCE-ASA Oncology Educational Fellowship

Sep 2024 – May 2025

Allievi Honors Program

2018 – 2022

Scholarship, funded by Collegio Carlo Alberto

TALKS

International Conference on Statistics and Data Science (Contributed talk)

December 2025

Doubly Robust Prediction Sets for Missing Outcomes via AutoDML

Seminar at the Center for Causal Inference at University of Pennsylvania (Invited talk)

February 2025

Doubly Robust and Efficient Calibration of Prediction Sets for Censored Time-to-Event Outcomes

Seminar at the Causal Inference and Missing Data Group at INRIA (Invited talk)

February 2025

Doubly Robust and Efficient Calibration of Prediction Sets for Censored Time-to-Event Outcomes

International Conference on Statistics and Data Science (Contributed talk)

December 2024

Conformal Prediction for Survival Data.

CMStatistics (Invited talk, session 300)

December 2023

Conformal Prediction for Survival Data.

SERVICE

Organizer of the first CCA Alumni Workshop

December 2024

Member of Associazione Allievi della Fondazione Collegio Carlo Alberto

2019 – present

Served as President from 2020 to 2022

Student representative at University of Turin

2020 – 2022

Volunteering peer tutor for high school students

2017 – 2022

Mathematics, Computer Science, Physics, English