

Rebecca Farina

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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

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

WORK EXPERIENCE

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

Merck, Biostatistics Intern Summer 2024
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., Tchetgen Tchetgen, E.J., Kuchibhotla, A.K. (2025) *Semi-Supervised Learning Under Non-Monotone Missingness*. In preparation.

Farina R., Agrawal, A., Gabitto, M., Mena, G. (2025) *Biophysical Bayesian Inference for Neurodegenerative Dynamics: a Multi-Temporal Framework*. In preparation.

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. Submitted to journal.

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

36-672: 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 Scholarship, funded by Collegio Carlo Alberto	2018 – 2022

TALKS

Seminar at the Center for Causal Inference at University of Pennsylvania (Invited talk) Doubly Robust and Efficient Calibration of Prediction Sets for Censored Time-to-Event Outcomes	February 2025
Seminar at the Causal Inference and Missing Data Group at INRIA (Invited talk) Doubly Robust and Efficient Calibration of Prediction Sets for Censored Time-to-Event Outcomes	February 2025
International Conference on Statistics and Data Science (Contributed talk) Conformal Prediction for Survival Data.	December 2024
CMStatistics (Invited talk, session 300) Conformal Prediction for Survival Data.	December 2023

SERVICE

Organizer of the first CCA Alumni Workshop	December 2024
Member of Associazione Allievi della Fondazione Collegio Carlo Alberto Served as President from 2020 to 2022	2019 – present
Student representative at University of Turin	2020 – 2022
Volunteering peer tutor for high school students Mathematics, Computer Science, Physics, English	2017 – 2022