

# Rebecca Farina

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she/her

## EDUCATION

<b>Carnegie Mellon University</b> , PhD in Statistics	Aug 2022 – May 2027 (Expected)
Advisor: Arun Kumar Kuchibhotla	
<b>University of Turin (Dept of Mathematics)</b> , MSc in Stochastics and Data Science	Sep 2020 – Jul 2022
Final Grade: 110/110 cum laude and honourable mention	
<b>Collegio Carlo Alberto</b> , Master in Statistics and Applied Mathematics & Diploma in Economics	Sep 2018 – Sep 2022
Awarded with distinction	
<b>University of Turin (Dept of Mathematics)</b> , 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

<b>Roche</b> , Intern in Statistical Modeling and Analytics <i>Basel, Switzerland</i>	Summer 2025
Research topic: Hospital readmission prediction for chronic heart failure management.	
<b>Merck</b> , Biostatistics Intern <i>North Wales, PA</i>	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.**, 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**

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**FDA-OCE-ASA Oncology Educational Fellowship**

Sep 2024 – May 2025

**Allievi Honors Program**

2018 – 2022

Scholarship, funded by Collegio Carlo Alberto

## **TALKS**

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**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**

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**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