

**Daniela Corbetta**  
**CURRICULUM VITAE**

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University of Padova, Department of Statistical Sciences  
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**Current position**

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**Research fellow**

Department of Statistical Sciences, University of Padova

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**Education**

*October 2022 – September 2025*

**PhD in Statistics** (Expected defense date: Feb 2026)

Department of Statistical Sciences, University of Padova

Thesis: *Advances in selective inference: from hierarchical conformal prediction to high-dimensional post-hoc methodologies with applications to scRNA-seq data*

Supervisors: Davide Risso and Livio Finos

*October 2019 – March 2022*

**Master's Degree in Statistical Sciences**

Department of Statistical Sciences, University of Padova

Thesis (in italian): *Procrustes analysis for spatial transcriptomics data*

Supervisors: Livio Finos, Davide Risso, Angela Andreella

Final mark: 110/110 cum laude

*October 2016 - September 2019*

**Bachelor's Degree in Statistics for Technology and Science**

Department of Statistical Sciences, University of Padova

Thesis (in Italian): *Meta-analysis in presence of competitive risks*

Supervisor: Giuliana Cortese

Final mark: 110/110 cum laude

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**Visiting periods**

*November 2024 - May 2025*

**Visiting PhD student**

Institut de Mathématiques de Toulouse

Supervisor: Pierre Neuvial

*February 2024 - July 2024*

**Visiting PhD student**

Center for Computational Biomedicine, Harvard University

Supervisors: Robert Gentleman and Ludwig Geistlinger

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**Work Experience**

*August 2021 - September 2022*

**Statistical programmer**, Alira Health, Bologna (Italy)

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**Awards**

- Best poster award - Retreat of the Department of Statistical Sciences, University of Padova (September 2025)

- SAS Curiosity Cup 2022 - Data preparation winner and data analysis runner up

## Computer skills

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- Languages: R (advanced), SAS (advanced), Python (intermediate);
- Other: Latex (advanced), GitHub (basic).

## Languages

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Italian (native); English (fluent); French (basic).

## Teaching

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| 2025 | <i>Multidimensional Data Analysis</i> (laboratory sessions), Department of Statistical Sciences, University of Padova |
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## Thesis supervision

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| 2025 | <b>Paolo Della Penna</b> , Master's thesis in Statistical Sciences (co-supervisor), Department of Statistical Sciences, University of Padova |
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## Conference presentations

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- Oral presentation: *Conformal inference for cell-type prediction with graph-structured constraints*, Mathematics of Single-Cell Data-Analysis Workshop, Marseille (France), 1 July 2025;
- Oral presentation: *Inference for high-dimensional linear models with conditional resampling*, High-Dimensional Statistical Inference Workshop, Venice (Italy), 27 May 2025;
- Poster presentation: *Conformal inference for cell type prediction leveraging the cell ontology*, Lorenzo Bernardi e la Statistica Sociale, Padova (Italy), 18 October 2024;
- Oral presentation: *Conformal inference for cell type prediction leveraging the cell ontology*, Ascona workshop: Spatial and temporal statistical modeling in molecular biology, Ascona (Switzerland), 8-13 September 2024;
- Oral presentation: *Conformal inference for cell type prediction leveraging the cell ontology*, European Bioconductor Conference, Oxford, 4-6 September 2024;
- Poster presentation: *Alignment of Spatial Transcriptomics data with the alignProMises R package*, European Bioconductor Conference, Ghent (Belgium), 20-22 September 2023;
- Oral presentation: *Procrustes analysis for spatial transcriptomics data*, 44th ISCB conference, Milan (Italy), 27-31 August 2023;
- Poster presentation: *Procrustes analysis for high-dimensional data*, useR! 2022 (online), 20-23 June 2022.

## Software

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- Contributor of MerfishData ([Bioconductor](#))
- Author of alignProMises ([Github](#)) and scConform ([Github](#))

## Publications

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- Corbetta D., Finos L., Risso D. (2024), Conformal inference for cell type prediction with graph-structured constraints, Book of the Short Papers SIS 2024, ISBN [9783031643507](#)
- Corbetta D., Finos L., Geistlinger L., Risso D. (2025+), Conformal inference for cell type annotation with graph-structured constraints ([arXiv](#))