

# Andrea Tamburini

PHD STUDENT · DEMOGRAPHY

Vienna Doctoral School of Social Sciences / OeAW, Wittgenstein Centre (IIASA, OeAW, Univ. Vienna)

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## Education

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### University of Vienna

PHD DEMOGRAPHY, VIENNA DOCTORAL SCHOOL OF SOCIAL SCIENCES

- Research Interests: statistical demography, machine learning, Bayesian statistics, spatial demography.
- Supervisor: Ass.-Prof. Erich Striessnig

Vienna (AT)

10.20 - present

### TU Munich

MASTER DEGREE IN MATHEMATICAL FINANCE AND ACTUARIAL SCIENCE

- Master Thesis: "Dynamic factor copula models and systemic risk in the banking sector" (grade: 1.3)

Munich (DE)

10.15 - 07.18

### University of Milan

EXTRA-CURRICULUM MASTER COURSES:

- Probability theory.
- Probability calculus and mathematical statistics 2.

Milan (IT)

10.14 - 03.15

### University of Milan

BACHELOR DEGREE IN MATHEMATICS

Milan (IT)

10.11 - 10.14

## Professional Experience

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### Research Assistant

HUMAN CAPITAL DATA LAB, VIENNA INSTITUTE OF DEMOGRAPHY

Vienna (AT)

01.22 - present

### Research Assistant

HUMAN CAPITAL DATA LAB, VIENNA INSTITUTE OF DEMOGRAPHY

Project: BayesEdu.

- Responsibilities:
  - data collection,
  - literature review,
  - mortality Bayesian model development,
  - implementation and testing.

Vienna (AT)

09.20 - 12.21

### Risk Manager

RAIFFEISEN CENTROBANK

- Responsibilities:
  - connecting role between the risk analysts and the developers,
  - "Agile" project management,
  - combined use of R and Oracle SQL.

Vienna (AT)

05.18 - 05.20

### Risk Manager

RAIFFEISEN CENTROBANK

Part-time employment in the Market Risk department.

- Responsibilities:
  - review of internal models,
  - combined use of R and Oracle SQL,
  - improving the existing data infrastructure,
  - development of complete and precise documentation.

Vienna (AT)

09.17 - 04.18

## Publications

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### IN PREP

**Tamburini, A.**, Striessnig E., Muttarak R., Gao J., 2022, Assessing future vulnerabilities: a machine learning approach to multi-dimensional population projections at the sub-national level.

**Tamburini, A.**, Yıldız D., Wiśniowski A., 2022, Bayesian multi-state mortality reconstruction.

## Presentations

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*\* presenting author*

### CONTRIBUTED PRESENTATIONS

**Tamburini, A.\***, Marginean I., "Quantifying future vulnerability to climate change: The importance of high-resolution population projections.". Scenarios forum 2022.

**Tamburini, A.\***, Yıldız D., Wiśniowski A., "Bayesian multi-state mortality reconstruction". PAA 2022, Flash Session.

**Tamburini, A.\***, Yıldız D., Wiśniowski A., "Bayesian multi-state mortality reconstruction". BSPS Virtual Conference 2021.

**Tamburini, A.\***, Yıldız D., Wiśniowski A., "Bayesian multi-state mortality reconstruction". IPC 2021 Conference.

## Additional training

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### **Annual IPSA-HSE Summer School for Methods of Political and Social Research - Bayesian Statistics**

National Research University Higher School of Economics, St. Petersburg (RU), August 2022.

### **Topics in Digital and Computational Demography – online course**

Max Planck Institute for Demographic Research, Rostock (DE), November 2021.

## Software Skills

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R: advanced.

Python: proficient.

SQL: intermediate.

Excel: advanced.

## Language Skills

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Italian: native.

English: fluent.

German: proficient.

French: basic.