# Tereza Blažková

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## Research Interest

My research examines how predictive algorithms shape decision making in public and institutional settings. I focus on fairness, stakeholder involvement, and responsible AI governance, using machine learning, mixed methods, and algorithm audits to assess and improve these systems, particularly in education.

## Education

**University of Copenhagen**

PhD in Social Data Science                                                                                 *2024-present*

- Supervised by Andreas Bjerre-Nielsen (University of Copenhagen) and René Kizilcec (Cornell University)
- **Research focus:** Predictive modeling, algorithmic fairness, education, and integrating mixed methods with algorithm audit for developing a participatory algorithm design

**University of Copenhagen**

MSc in Social Data Science                                                                                 *2021-2024*

- **Thesis:** Using Machine Learning to Predict University Dropout: A Study on Accuracy and Fairness, **Grade: 12/12**

**Charles University**

Ba in Sociology with Economics                                                                             *2018-2021*

- Graduated with honours
- Awarded with the **Scholarship for excellent academic results**

## Research Positions

**Statistics Denmark**

Guest Researcher                                                                                           *2023-present*

**University of Cornell**

Visiting PhD Student                                                                                        *January 2025*

**University of Seville**

Secondee through EU NeEDS (Network of European Data Scientists), under the Marie Skłodowska-Curie program                                                                                                     *June 2024*

**Copenhagen Business School, Sustainability Centre**

Research Assistant                                                                                          *2022-2024*

**University of Copenhagen, Center for Social Data Science**

Research Assistant                                                                                          *2023-2024*

## Publications and Invited Talks

### PUBLICATIONS

Fairness Over Time: A Nationwide Study of Evolving Bias in Dropout Prediction
**Blazkova**, **T.**, Kizilcec, R. F., Nielsen, M. L., Lassen, D. D., Bjerre-Nielsen, A.
*Proceedings of the Twelfth Annual ACM Conference on Learning at Scale*, 2025

Sentiments and Sustainability: Stakeholder Perceptions of Sustainable Fashion on Social Media
**Blazkova**, **T.**, Pedersen, E. R. G., Andersen, K. R.
*Journal of Fashion Marketing and Management* (2025). 2025

Greenwashing Debates on Twitter: Stakeholders and Critical Topics
**Blazkova**, **T.**, Pedersen, E. R. G., Andersen, K. R., Rosati, F.
*Journal of Cleaner Production* (2023) p. 139260. 2023

### INVITED TALKS

Charles University, Prague, Czech Republic
Using National Registries for Predicting Educational Outcomes, 2025

FAIR4AIED Workshop at AIED Conference, Palermo, Italy
Fairness Over Time in Dropout Predictions, 2025

Future of Learning Lab, Cornell University, Ithaca, NY, USA
Variations in Learning Pathways Among Students with Disabilities and Its Impact on Algorithmic Fairness, 2025

Learning Analytics in Practice Conference, online
Participatory AI Design for Dropout Prevention Algorithms, 2025

The Embassy of the Czech Republic in Copenhagen, Czexpacts in Science, Copenhagen, Denmark
Using National Registries for Predicting Educational Outcomes, 2025

Unifying Perspectives on Learning Biases Workshop, EurIPS Conference, Copenhagen, Denmark
The Role of Outcome Imbalance in Fairness Over Time, 2025

European Centre for Algorithmic Transparency, Sevilla, Spain
Predicting University Dropout: A Study on Accuracy and Fairness, 2024

Copenhagen Business School Sustainability Centre Seminar, Copenhagen, Denmark
Corporate Sustainability between Aspirational Talk and Greenwashing, 2023

# Teaching and Supervision

### Lecturer
University of Copenhagen, Center for Social Data Science                                           *February 2025*
- Guest Lecturer in Data Governance course on the topic: "Predictive Analytics and Its Ethical and Political Implications"

### Teaching Assistant in Digital Methods course
University of Copenhagen, Center for Social Data Science                                    *April 2025 - May 2025*
- Led weekly exercise classes in a graduate course, which focused on digital mixed methods

### Teaching Assistant in Data Governance course
University of Copenhagen, Center for Social Data Science                                *January 2023 - March 2023*
- Led weekly exercise classes in a graduate course, which focused on research in legal, political, and ethical aspects of data governance
- Guided 16 students in their projects, moderated discussions and delivered feedback

### Supervision
University of Copenhagen, Center for Social Data Science                              *October 2025 - January 2026*
- Supervision of 5 graduate level theses + 2 industrial internships
- Guiding students in structuring research questions, methodology, and analysis through bi-weekly meetings

# Service

### PhD Student Representative
University of Copenhagen, Center for Social Data Science                          *January 2025 – December 2025*
- Represented doctoral students in departmental discussions and policy development. Led successful efforts to simplify the teaching-hours system, introduce departmental merchandise, and improve onboarding initiatives for new PhD students.

### Social Committee Member
University of Copenhagen, Center for Social Data Science                          *October 2024 – December 2025*
- Planned and executed community-building events that strengthened student and staff engagement.

### Graduate Program Study Board Representative
University of Copenhagen, Center for Social Data Science                        *September 2022 – January 2024*
- Contributed to curriculum development and program policy improvements. Championed new social and academic activities and helped introduce conditional use of LLM tools in take-home exams.

### Co-founder, Social Data Science Student Subject Council
University of Copenhagen, Center for Social Data Science                        *September 2022 – January 2024*
- Co-founded the council and co-organized academic and social activities for students. Coordinated the first Regional Social Data Science Student Conference with participants from four universities.

# Skills

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| **Programming** | Python (Pandas, NumPy, Seaborn, Matplotlib, Sklearn, PyTorch, TensorFlow, NLTK, spaCy, AIF360 etc.), R (ggplot2, Tidyverse), SPSS |
| **Other Hard Skills** | Network analysis, Natural Language Processing, Machine Learning |
| **Soft Skills** | Communication, Responsibility, Strong team spirit, Problem-solving, Critical thinking, Independency |