

# Kristin Kaltenhäuser

PHD FELLOW

Department of Computer Science, University of Copenhagen

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## Summary

I am a PhD student at the Department of Computer Science, University of Copenhagen in the Human-Centered Computing research section. Here I am also part of the Confronting Data Co-lab. My research is at the intersection of machine learning (ML), computer-supported cooperative work (CSCW) and human-computer interaction (HCI). I'm interested in exploring new and interdisciplinary methods to draw meaning from quantitative data and use statistical and ML tools in creative ways to study real-life phenomena and concepts. I have a MSc in Software Design, a MA in Intercultural Communication and Gender Studies and a BA in Media and Culture Studies. Additionally, I have several years of diverse work experience. I worked as a diversity analyst at CERN. During work at Ørsted, a wind energy company in Denmark, I worked as a data scientist and model engineer, building machine learning models to predict failures in large machinery. My interest lies with exploring new and interdisciplinary methods to draw meaning from data and integrating human values into data science practice, driving the agenda of human-centered data science and data feminism. Using participatory and data science methods, my PhD project is about grounded sensemaking of data in asylum decision-making in the Nordic countries, drawing on the experience of scholars, practitioners and policy-makers.

## PhD Project

Working Title: **Decoding Margins: Exploring Outliers in Danish Asylum Decision Summaries through a Data Science Lens**  
Supervisors: **Naja Holten Møller, Tijs Slaats** (Department of Computer Science, University of Copenhagen)  
Research Project: **Nordic Refugee Determination: Advancing Data Science in Migration Law (NordASIL)**  
Timeframe: **February 2022 - January 2025**

## Education

### Research stay abroad

Berkeley, California, USA

CENTER FOR SCIENCE TECHNOLOGY, MEDICINE AND SOCIETY (CSTMS), UNIVERSITY OF CALIFORNIA, BERKELEY

April 2024 - June 2024

- Research collaboration with Ass. Prof Morgan Ames
- Participation in Science and Technology Studies working group of the CSTMS department

### Master of Science, Software Development

Copenhagen, Denmark

IT UNIVERSITY

2016 - 2018

- Specialisation: Algorithm Design & Machine Learning
- Thesis: Uncovering Abuse on Social Media - A Multi-task Learning Approach to Automated Text Classification

### Master of Arts, Intercultural Communication Studies

Frankfurt/Oder, Germany

EUROPEAN UNIVERSITY VIADRINA

2012 - 2016

- Specialisation: Gender Studies and International Management

### Bachelor of Arts, Medienkultur (Media and Culture Studies)

Weimar, Germany

BAUHAUS UNIVERSITY

2008 - 2012

- Specialisation: Media economics, Media and Art Theory

## Professional Experience

### Model Engineer

Copenhagen, Denmark

ØRSTED

Sept 2020 - Jan 2022

- Developing advanced analytics and machine learning models for the monitoring of Ørsted's power plants to predict component failures (predictive maintenance)
- Designing and developing an analytics app in close collaboration with maintenance technicians to ensure adaptation of machine learning models in plant maintenance operations

## IT Trainee

ØRSTED

Copenhagen, Denmark

Sept 2016 - Aug 2018

- Project work in three different areas of the Ørsted IT Department: Security Analytics, Advanced Analytics, Scrum Master.

## Diversity Analyst

CERN

Geneva, Switzerland

Sept 2014 - Aug 2016

- Diversity Policy analysis and implementation: Research and report on best practices in diversity management in multi-cultural environments, mainstreaming diversity principles in organizational processes
- Internal and external communication: Event organization (workshops, trainings and conferences) and presentations e.g. designing gender inclusive teaching material together with the CERN High School Teacher Programme

## Publications

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### PUBLISHED

**Kristin Kaltenhäuser, Tijs Slaats, Michael Muller, and Naja Holten Møller.** 2025. *Beyond Accuracy: Rethinking Outlier Detection in Asylum Data*. ACM J. Responsib. Comput. 2, 1, <https://doi.org/10.1145/3718986>

**Kristin Kaltenhäuser, Tijs Slaats, Thomas Gammeltoft-Hansen, Naja Holten Møller.** 2022. *Deconstructing Gender in Asylum Categories: An Archival Perspective on a Practice with Limited Access*. Proceedings of the 20th European Conference on Computer-Supported Cooperative Work: The International Venue on Practice-centred Computing on the Design of Cooperation Technologies. DOI: 10.48340/ecscw2022\_n03

**Kristin Kaltenhäuser.** 2022. *Destabilising Data in Nordic Asylum Decision-Making*. Doctoral Colloquium. Proceedings of 20th European Conference on Computer-Supported Cooperative Work. DOI: 10.48340/ecscw2022\_dc06

### SUBMITTED

**Naja Holten Møller, Vasilis Vlachokyriakos, Trine Rask Nielsen, Ioannis Efthymiou, Tina Westergaard Milbak, Kristin Kaltenhäuser, Tijs Slaats, Paul Dourish.** *Ethnography of the data-driven workplace: Enrolling NLP to Access Civic Insights in Asylum Case*.

### WORK IN PROGRESS

**Kristin Kaltenhäuser, Naja Holten Møller, Morgan Ames.** *Framing the Margins: The Role of Outliers in Data-Driven Asylum Decision-Making*.

**Aleksas Prelgaus, Axel Kjeld Fjelrad Christfort, Kristin Kaltenhäuser, Naja Holten Møller, Tijs Slaats.** *Outlier Removal in Process Discovery: Filtering Noise or Introducing*.

## Presentations

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NeurIPS December 2022. *Statelessness in Asylum Data - A Human-Centered Perspective on Outliers*. Presentation of my position paper at the Human-centered AI workshop (HCAI @ NeurIPS22).

Data Justic Conference July 2023. *Beyond the Numbers: Understanding Outliers in Asylum Decision-making*. Presentation of my current work on outliers.

DIKU Alumni Day September 2023. *AI, ML and Outliers – A Case Study of Asylum Data in Denmark*. Presentation of my current work on outliers.

IDA Conference on Diversity and Inclusion in Tech. *AI, Asylum and Outliers*. Presentation of my current work on outliers.

Berkeley STS/HST Working Group June 2024. *Decoding Outliers: A Case Study of Danish Asylum Data for Algorithmic Analysis and Practitioner Insights*. Presentation of my current work on outliers.

## Teaching Experience

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|-------------|--|---|
| Fall 2023   | <b>Communication and Computer-Supported Collaboration in Organizations, MA course,</b> guest lectures on situated work and information infrastructures | University of Copenhagen<br>Department of Computer Science, |
| Spring 2023 | <b>Software Engineering and Architecture, MA course,</b> guest lectures on Scrum and teaching assistant  | University of Copenhagen                                    |
| Fall 2022   | <b>Communication and Computer-Supported Collaboration in Organizations, MA course,</b> guest lecture on situated work                                  | University of Copenhagen                                    |

## Research Service Work

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### **Journal Club coordinator at Confronting Data Co-Lab**

DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF COPENHAGEN

*Copenhagen, Denmark*

*Feb 2022 - Present*

- Journal Club Coordinator
- Co-organizing the PhD course *Confronting Data through Design Methods* in February 2023

### **BA project coordinator for the BA in Computer Science for the SDPS section**

DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF COPENHAGEN

*Copenhagen, Denmark*

*June 2022 - June 2023*

- Research presentation of the SDPS section to the students
- Coordinate and match BA thesis projects of the section with students

## Volunteering

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### **Teaching Data Analytics**

REDI SCHOOL OF DIGITAL INTEGRATION

*Copenhagen, Denmark*

*Jan 2021 - Dec 2021*

- Developed the content for a new 12-week intensive course on data analysis with 4 other teachers, including data acquisition, wrangling, visualization and an introduction to statistics and machine learning.
- Executed the course twice, leading around 40 women with a migration background to a successful completion of the course.
- Co-design and facilitation of a workshop on unconscious bias for all teachers and students of ReDi School Copenhagen.
- Presentation on the topic "Why is diversity hard for us?" at the semester-end demo day for all students, teachers and industry supporters.