Ninell Oldenburg

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Education

2024 - current	**PhD Philosophy of AI**, University of Copenhagen *Supervisor: Anders Søgaard*
2021 - 2023	**MSc IT & Cognition**, University of Copenhagen & Hong Kong University of Science and Technology *Focus: Machine Learning, AI Ethics*
2017 - 2020	**BSc Computational Linguistics**, University of Potsdam & University of Trento *Focus: Theory of Computer Science, Formal Semantics*

Academic Experience

Research Fellow, PIBBSS Summer Research Fellowship, Oxford, UK/Prague, CZ   Jun 2023 - Sep 2023

Modeled an environment for learning and sustaining normative systems in multi-agent Markov games via Bayesian rule induction. *Mentor: Tan Zhi-Xuan (MIT).*

Visiting Graduate Research Assistant, MIT, Cambridge, US / Remote   Feb 2023 - Jun 2023

Bayesian multi-agent modelling for symbolic norm learning.
Supervisors: Tan Zhi-Xuan (MIT), Dr. Nora Hollenstein (University of Copenhagen).

Graduate Research Assistant, IT University Copenhagen, DK   Oct 2021 - Dec 2022

Meta-study on the state of the art of bias research in NLP.
Supervisor: Prof. Barbara Plank (LMU Munich/IT University Copenhagen).

Undergraduate Research Assistant, University of Dramatic Art, Berlin, DE   Sep 2019 - Feb 2020

End-to-end system for computer-aided pronunciation training.
Supervisors: Prof. Andree Gubisch (University of Dramatic Art), Prof. David Schlangen (University of Potsdam).

Software Engineering Intern, German Research Center for AI, Berlin, DE   May - Aug 2017

Multi-modal scheduling app. *Supervisor: Dr. Kinga Schumacher (DFKI).*

Publications

Ninell Oldenburg and Anders Søgaard. 2025. *Navigating the Informativeness-Compression Trade-Off in XAI*. AI & Ethics. (Forthcoming)

Ninell Oldenburg and Tan Zhi-Xuan. 2024. *Learning and Sustaining Shared Normative Systems via Bayesian Rule Induction in Markov Games*. In Proceedings of the 23rd International Conference on Autonomous Agents and Multiagent Systems (AAMAS).

Talks

Philosophical Commitments to LLM Evaluations: The Problem of Moving Goalposts and Observational Relativity. AI & Humanity Lab Hong Kong, Seminar Series 2025.

The Completeness Problem: Beyond Human Metrics in Assessing Cognitive Systems. 4th Advanced Course on Artificial Intelligence & Neuroscience 2024.

Navigating the Informativeness-Compression Trade-Off in Explainability. International Association for Computing and Philosophy (IACAP) 2024 Conference.

Fellowships, Funding & Summer Schools

2025	**Research Visit at the AI & Humanity Lab**, Hong Kong University
2024	**Philosophy of AI Summer School**, University of London, Paris
2024	**ABC Summer School "Neuro-AI: Understanding computation in mind and brain"**, University of Amsterdam
2023	**Training for Good EU Tech Policy Fellowship**: $9,000 (declined)
2022	**FTX Future Fund Grant for an AI Reading Group Berkeley, CA & AI Self-Study**: $17,500
2019	**31st European Summer School for Language, Logic, and Information (ESSLLI)**: Travel Grant
2018	**Erasmus+ Study Grant University of Trento**: $3,600

Media

Is there someone behind the screen? Researchers are divided on AI consciousness. ScienceNordic (Danish Version on Videnskab.dk. 2025.

Teaching

Lecturer "Datamining", University of Copenhagen, DK   Apr - May 2025
Master's Level Language Processing and AI Ethics

Lecturer "Empirical Methods and Theory of Science", University of Copenhagen, DK   Oct 2024 - Nov 2024
Bachelor's Level Statistics

TA "Introduction to Computer Science", Hong Kong University of Science and Technology, HK   Sep 2022 - Dec 2022
Bachelor's Level C++

Non-Academic Experience

Email Marketing Student Assistant, SOUNDBOKS, Copenhagen, DK   Oct 2021 - Jun 2022
Hold the end-to-end ownership of the email marketing strategy and all email needs (planning, creation, tracking, and data analysis); guided the English and German copywriting and localization.

Associate Linguist, Google Germany (via Adecco), Hamburg, DE   Aug 2020 - Aug 2021
Natural language generation & understanding for the Google Assistant.

Integration Mentor, Huckepack e.V., Berlin, DE   Sep 2016 - Sep 2018
Mental health and integration mentor for a refugee teenager.

Miscellaneous

Programming	Python (incl. NLTK, SciPy), C++, Lua, JavaScript, Java	
Languages	German (native), English (fluent), Italian, French, Danish (intermediate)	
Journalism	Writer & Editor (2016 - 2020)	Kiez und Kneipe, Berlin
	Youth Journalist (2010 - 2014)	Märkische Oderzeitung, Frankfurt (Oder)
Blogging	12 Months at 12 Places (2020 - 2021)	Zwoelfmaldeutschland, Germany
	Books (2015 - 2017)	Yet Another Bookreview