

Bertram Højer

PHD STUDENT · NLP, ML, & AI

Copenhagen, Denmark

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I'm a 2nd year PhD student at the IT University of Copenhagen studying reasoning and logic in language models.

Education

IT University of Copenhagen

Copenhagen, Denmark

PHD FELLOW (CURRENT)

Sep. 2024 - Aug. 2027

- Recipient of the ITU PhD Open Call Scholarship to work on AI reasoning and NLP.
- **ETH Zürich** (Sep. 2025 - Jan. 2026): Academic guest researcher at Rycolab.

IT University of Copenhagen

Copenhagen, Denmark

MSC. IN DATA SCIENCE

Sep. 2022 - Jun. 2024

- Advanced Machine Learning, Applied Statistics, Machine Learning, and Natural Language Processing
- Erasmus Exchange at Politecnico di Milano, Artificial Intelligence Track (2023)

Aarhus University

Aarhus, Denmark

BSC. IN COGNITIVE SCIENCE & MATHEMATICS

Sep. 2018 - Jun. 2021

- Computational Modeling, Statistics, Philosophy of Mind, and Computational Neuroscience
- Minor in Mathematics: Mathematical Analysis, Scientific Computing, and Linear Algebra

Experience

IT University of Copenhagen

Copenhagen, Denmark

TEACHING ASSISTANT IN **ADVANCED MACHINE LEARNING**

2024

- Covered material from basic implementations of deep neural networks, to auto-encoder and transformers.

Nexcom

Copenhagen, Denmark

DATA SCIENTIST

2022 - 2023

- Development and deployment of ML classification models for automated labeling of speech and text data

Interacting Minds Center, Aarhus University

Aarhus, Denmark

RESEARCHER

2020 - 2022

- Experimental design, data analysis, participant coordination, fMRI scanning and analysis

Political Science, Aarhus University

Aarhus, Denmark

RESEARCHER

2020 - 2021

- Web-scraping, natural-language processing, and data analysis

Cognition & Behavior Labs, Aarhus University

Aarhus, Denmark

RESEARCHER

2019 - 2020

- Experimental design and participant coordination

Highlighted Publications

Improving Reasoning in Large Language Models via Representation Engineering

ICLR 2025

Singapore

Research Community Perspectives on “Intelligence” and Large Language Models

ACL Findings 2025

Vienna

Additional Activity

Reasoning in the Embedding Space, IRN CLoVe Workshop (CNRS)

Copenhagen, Pioneer Centre of AI

CO-ORGANIZER ([PROGRAM WEBSITE](#))

January 2026

PhD Research Exchange Grant: 50.000 dkr.

Stibo Foundation

GRANT RECIPIENT

September 2025