

Natascha Schalburg

Academic CV, last updated: May 2026

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Education

- **PhD in Computer Science**, Aarhus University 2024–Present
Supervisor: Kasper Green Larsen
 - **Research Visit**, University of Waterloo Spring 2026
Host: Shai Ben-David
- **Master's degree in Mathematics**, Aarhus University 2022–2024
Master's thesis: Triangulated Categories and Stable Frobenius Categories
- **Bachelor's degree in Mathematics**, Aarhus University 2019–2022
Bachelor's thesis: The Weyl Algebra, Bernstein's Inequality and Holonomic Modules

Publications

Author order is alphabetical, following standard practice in theoretical machine learning

- **Tight Margin-Based Generalization Bounds for Voting Classifiers over Finite Hypothesis Sets** 2026
Kasper Green Larsen and Natascha Schalburg
Accepted at **ICML2026**
- **Tight Generalization Bounds for Large-Margin Halfspaces** 2025
Kasper Green Larsen and Natascha Schalburg
Accepted at **NeurIPS2025**, as a **spotlight** (top 3.55% of submissions)

Teaching Experience

- **Instructor, Introduction to Science Teaching** 2025–Present
Refining material for and teaching computer science pedagogy to PhD students and teaching assistants at Aarhus University
- **Teaching assistant**, Aarhus University 2019–2024
 - **Calculus Alpha/Beta**
 - **Linear Algebra**
 - **Analysis 1**
 - **Machine Learning**

Service and Leadership

- **Volunteer Work**

2022–Present

- **WoMA_n** (Women in Mathematics Aarhus)
Assisted with planning and running outreach activities and events for women studying mathematics at Aarhus University.
- **AdaNet** (Computer Science network for Women)
Contributed to planning and running activities. Contacted potential sponsors for the women-focused computer science network.