

# Laust Rask

27 years old

M.Sc. Nanoscience 2025

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Nanoscience graduate with research experience in computational chemistry, QM/MM, and high-performance computing. Strong background in scientific analysis and writing, complemented by leadership experience as chairman of the Nanoscience Study Council.



## Education

University of Copenhagen 2020-2025

M.Sc. & B.Sc. Nanoscience



## Projects

**Master Thesis:** The project involved simulation of electron transfer through a molecular junction utilising quantum master equations. Grade: 10 (B)

**Bachelor Thesis:** Implementation of core excitations in Cluster Perturbation Theory this was done using the core-valence separation approximation. Grade: 12 (A)



## Work Experience

**Nanoscience Study Council // Chairman** 2021-2024

Led the council for two years, representing student interests, coordinating meetings, and facilitating communication between students and faculty.

**Ankerpladsen Agersø // Bistro Manager** 2020

Responsible for coordinating a small team, handling customer service and maintaining high operational standards.

**Moment // Substitute worker** 2019-2020

Took on a variety of temporary roles, quickly adapting to new tasks and workplaces as needed.



## Languages

Fluent in **Danish** and **English**, communication level in **German** and learning **French**.



## Achievements

**Nanoscience Student of the Year** 2022 & 2024



## Skills

### Computational & Programming

- Quantum Chemistry software: *Dalton, Orca, VeloxChem, Penguin, VMD, etc.*
- Programming, data processing and visualisation: Mainly in *Python* due to its flexibility

### Scientific & Analytical

- Scientific writing and documentation: *LaTeX, Word*
- Presentation and communication skills. Especially due to my education in the Danish
- Critical analysis of both experimental and theoretical data



## Publication List

### Accepted:

A. E. Hillers-Bendtsen, M. B. Johansen, T. J. v. Buchwald, P. G. I. L. Dünweber, L. H. Olsen, **L. Rask**, G. I. Junker, R. M. H. Knudsen, K. V. Mikkelsen "Penguin: A Python-based Program for Electronic Structure Calculations based on Coupled Cluster Theory" *The Journal of Physical Chemistry A* (Accepted 2025)

### In Progress:

**L. Rask**, K. V. Mikkelsen "Conductance of a SubPc Molecular Junction using Redfield Theory" *TBD* (2025)

For more information please visit:

[laustrask.github.io](https://laustrask.github.io)