

# Magnus Grönberg

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Student, Single  
Sweden, Stockholm

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## RESEARCH INTEREST

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I am interested in using computers to analyze problems and simulate systems numerically. I am quite fascinated by the evolution of systems that depend on their initial condition and can easily diverge. In addition, I am very interested in exploring areas of teaching to transmit my knowledge of the subject and receive understanding from students. Other areas that catch my attention are experimental physics and applied mathematics.

## EDUCATION

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### Nackademin

*Cybergymnasiet Kvarnholmen*

## RESEARCH EXPERIENCE

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### Nackademin

*Scientific Research (Completed)*

#### Computational Chemistry :

Molecular modeling for the study of micelles with the aim of studying the electronic properties of surfactants, the dynamics of micelles in aqueous media and their properties as a medium for carrying out complex chemical reactions.

## TEACHING EXPERIENCE

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### Nackademin

*Math Tutor*

*2020 - 2021*

**Linear Algebra Tutoring:** I provided assistance to students in the Linear Algebra course for two semesters, answering their questions on the subject and solving the requested exercises. I also created videos of problem solving in order to show the visualization for better understanding by the students.

## SKILLS (BASIC – ADVANCED)

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### Linguagens:

- English: Understands Well, Speaks Little, Reads Well, Writes Well

### Programming Languages:

- Advanced: Python
- Good: C, JavaScript
- Basic: Go, Haskell , HTML, CSS

### Software:

- Advanced: terminal/command line, Jupyter Lab/Notebook
- Good:  $\text{\LaTeX}$ , Vim, Blender, Git, Inkscape, Manim, GROMACS
- Basic: SageMath, Office

### Sistema Operacional:

- Advanced: Linux (Arch Linux)

## PROJECTS

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**AI agent:** (Project completed) - Building a Bot using Deep Learning through comments on social networks.

**Data Analysis:** (Project completed) - Data Analysis using Pandas and scikit-learn.