

## EDUCATION

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- Uppsala University** Uppsala, Sweden  
Ph.D. in Physics, Advisor: Prof. Dr. Daniel Primetzhofer 2020–Current  
– Licentiate degree as a half time degree (2023)
- Uppsala University** Uppsala, Sweden  
M.Sc. in Physics 2018–2020  
– Thesis: “In-situ characterization of ultra-thin nickel silicides using low-energy ion scattering”
- Karlsruher Institute of Technology** Karlsruhe, Germany  
B.Sc. in Physics 2014–2018  
– Thesis: “Air-Retaining Layers Produced by Electrospinning - Behavior Regarding Water and Oil”
- Oscar-Paret-Schule** Freiberg a. N., Germany  
Allgemeine Hochschulreife 2007–2014

## WORK EXPERIENCE

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- Uppsala University** Uppsala, Sweden  
Project Student/Ion Physics Group December 2018–October 2019  
– The project consisted of establishing a process of manufacturing self-supporting tungsten foils, measuring the electronic energy loss of light ions in transmission and backscattering geometry on these foils as well as presenting the results of the project at the IBA 2019 conference.
- Porsche AG** Stuttgart, Germany  
Intern/Sportscar Assembly Division March–July 2018  
– The internship consisted of assistance in the process management of the assembly line, the preparation of in-house training, the preparation of daily divisional meetings, assistance in the introduction of a new sports car in the assembly line and the preparation of weekly GT3 Cup coordination meetings.
- MVZ Labor PD Dr. Volkmann und Kollegen** Karlsruhe, Germany  
Student Assistant September–October 2017  
– The duties and responsibilities consisted of labeling and preparing medical samples for further analysis.
- Studienkreis Durlach and Bühl** Karlsruhe and Bühl, Germany  
Tutor September 2015–September 2017  
– Tutoring high school students in mathematics and physics.

## TEACHING

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- **Teaching Assistant** at Uppsala University  
*Teknisk termodynamik (1FA527)*

January 2022–April 2024

## SKILLS

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- **Experimental methods:** Time-of-Flight Low Energy Ion Scattering, Rutherford Backscattering Spectrometry, Elastic Recoil Detection Analysis, Auger Electron Spectroscopy, Low Energy Electron Diffraction, X-Ray Fluorescence
- **Simulation and data evaluation methods:** SIMNRA, POTKU, TRBS, KALYPSO
- **Thin film deposition:** Sputter deposition, e<sup>-</sup>-beam evaporation
- **Programming languages:** Python, C++, Matlab
- **Other qualifications:** Course in “Radiation Protection”, Course in “Vacuum Technology”, Course in “Basic Laboratory Safety”

## LANGUAGES

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- **English:** Professional proficiency
- **German:** Native
- **Swedish:** Basic

## AWARDS

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- Ferry-Porsche Award for outstanding accomplishments in mathematics and physics 2014

## GRANTS AND FUNDING

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- Liljewalch travel scholarship (25 000 SEK  $\approx$  2 300 EUR) 2023
- ÅForsk travel scholarship (29 500 SEK  $\approx$  2 700 EUR) 2023
- Liljewalch travel scholarship (15 000 SEK  $\approx$  1 300 EUR) 2024

## EXTRACURRICULAR ACTIVITIES

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- Member of the board of the Tandem accelerator laboratory in Uppsala November 2022–Current  
*Ph.D. student representative on the board*
- Member of the board of MUNIKA e.V. December 2016–December 2017  
*Model United Nations Initiative Karlsruhe e.V.*

## SCIENTIFIC PUBLICATIONS

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- Twelve contributions to international conferences as presenting author (five oral and seven poster presentations).
  - Five publications in scientific journals:
- [1] P. M. Wolf, D. Neuß, T. T. Tran, E. Pitthan, M. Hans, J. M. Schneider, and D. Primetzhofer, “An in situ tof-leis characterization of the surface of ti-based thin films under oxygen exposure and at elevated temperatures”, *Applied Surface Science*, vol. 638, p. 158 076, Jul. 20, 2023.  
DOI: 10.1016/j.apsusc.2023.158076.

- [2] P. M. Wolf, E. Pitthan, Z. Zhang, C. Lavoie, T. T. Tran, and D. Primetzhofer, “Direct transition from ultrathin orthorhombic dinickel silicides to epitaxial nickel disilicide revealed by in situ synthesis and analysis”, *Small*, p. 2106093, Feb. 21, 2022. DOI: 10.1002/sml.202106093.
- [3] J. Shams-Latifi, E. Pitthan, P. M. Wolf, and D. Primetzhofer, “Experimental electronic stopping cross-section of tungsten bulk and sputter-deposited thin films for slow protons, deuterons and helium ions”, *Nuclear Materials and Energy*, vol. 36, p. 101491, Aug. 22, 2023. DOI: 10.1016/j.nme.2023.101491.
- [4] M. V. Moro, P. M. Wolf, B. Bruckner, F. Munnik, R. Heller, P. Bauer, and D. Primetzhofer, “Experimental electronic stopping cross section of tungsten for light ions in a large energy interval”, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, vol. 498, pp. 1–8, Jul. 2021. DOI: 10.1016/j.nimb.2021.04.010.
- [5] B. Bruckner, P. M. Wolf, P. Bauer, and D. Primetzhofer, “Impact of the experimental approach on the observed electronic energy loss for light keV ions in thin self-supporting films”, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, vol. 489, pp. 82–87, Feb. 2021. DOI: 10.1016/j.nimb.2020.08.005.