

Niko Heinemann

Curriculum Vitae

Education

- 2024–present **Doctor of Technical Sciences (Dr. techn.)**, *University of Graz, Austria*,
Doctoral School of Mechanical Engineering.
- 2020–2023 **Masters of Science (M.Sc.)**, *University of Graz, Austria*, Master of Theoretical
and Computational Physics.
- Specialization: Theoretical Particle Physics
- Graduated with Distinction
- 2017–2020 **Bachelor of Science (B.Sc.)**, *Graz University of Technology, Austria*, Bachelor
of Physics.
- Specialization: Technical Physics
- 2011–2016 **BHS Matura**, *HTL Leoben*, Metallurgy & Material Science.
- 2003–2011 **Primary school & Junior High School**, *Kinderschule Taptana*, Montessori.

Work experience

- 2024–present **University Assistant**, *Institute of Strength of Materials*, Graz University of
Technology, Austria.
- 2023–2024 **Software Engineer & Data Scientist**, *Heinemann Oil GmbH*, Leoben, Austria.
- 2019–2023 **Student Assistant**, *Institute of Applied Mathematics*, Graz University of Technol-
ogy, Austria.
- 2015–2016 **Technical Staff**, *ICE Stroemungsforschung GmbH*, Leoben, Austria.

Scientific experience

Publication

- 2019 **Statistical Analysis and Catalog of Non-polar Coronal Holes Cover-
ing the SDO-era using CATCH**, *Stephan G. Heinemann, Manuela Temmer,
Niko Heinemann, Karin Dissauer, Evangelia Samara, Veronika Jerčić, Stefan J.
Hofmeister & Astrid M. Veronig*, 2019, Solar Physics, Springer.

Participation in scientific conferences

- September 2022 **Oral presentation at the 71st Annual Meeting of the Austrian Physical
Society 2022, ÖPG 2022**, *Leoben, Austria*.
- July 2022 **Participation in the 11th International Conference on the Exact Renor-
malization Group 2022, ERG 2022**, *Berlin, Germany*.

Language

- German **Native**
English **Advanced**

———— Computational skills

Programming

Advanced PYTHON, MATLAB
Intermediate MATHEMATICA
Intermediate Linux

Software

Advanced L^AT_EX
Intermediate MS Office Suite
Basic OpenFOAM

———— Awards and prizes

2022 **Paul-Urban Scholarship**, Travel Grant, University of Graz, Austria.
2019 **Excellence Scholarship**, Graz University of Technology, Austria.