



Bernd Riederer, BSc

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Bernd Johannes Riederer, BSc MSc

Student of Physics

About Me

Born in Austria

09.07.1995

Nationality

Austria

Education

2020 - present, PhD Studies

- PhD-Studies the University of Graz
- FWF-Project: *Spectroscopy of $SU(3)$ gauge-scalar theories*

2017 - 2020, Graduate Studies (in English)

- Joint Master's degree programme *Physics* in the framework of NAWI Graz at the Technical University Graz and the University of Graz
- Specialisation on *Theoretical and Computational Physics*
- Master's Thesis: *Scattering Phases in the $H \rightarrow WW$ Channel*
- Graduated with distinction in March 2020

2014 - 2017, Undergraduate Studies

- Joint Bachelor's degree programme *Physics* in the framework of NAWI Graz at the Technical University Graz and the University of Graz
- Bachelor's Thesis: *Portal Monitor optimization by applied deconvolution of gamma ray spectra*
- Graduated with distinction in July 2017

Experience

2016 - 2019, Student Assistant, Technical University Graz

Employed during the academic years 2016/17, 2017/18 and 2018/19 at several institutes

Fields of activity:

- Contribution to the lectures/exercise classes:
 - *Linear Algebra* (Winter term 2016, 2017 and 2018)
 - *Programming in Physics: Matlab* (Summer term 2017, 2018 and 2019)
 - *Computational Methods in Technical Physics* (Winter term 2017 and 2018)
 - *Vector Analysis* (Summer term 2019)
- Teaching undergraduate students mathematical basics
- Teaching undergraduate students basic and advanced programming skills

Summer 2016, 2017 and 2018, Internship, Seibersdorf Labor GmbH

Department: Radiation Safety and Applications

Fields of activity:

- Monte-Carlo Simulations using *MCNP*
- Programming using *C/C++*, *Python* and *Matlab*
- 2016: Writing the Bachelor's Thesis (see: *Education*)



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Other

Programming

Advanced Skills:

- C/C++
- Matlab
- \LaTeX

Basic Skills:

- Mathematica
- Python
- Julia
- HTML/CSS
- VBA

Languages

- Mothertongue German
- Fluent in English
- Basics in Latin

Conferences

- Particle and Astroparticle Physics Autumn Programme (PAPAP19)
Rome/L'Aquila (Italy), December 2019
- Physics for Physicists (P4P19)
Skopje (North Macedonia), October 2019
- International Conference of Physics Students (ICPS19)
Cologne (Germany), August 2019

Scholarships & Awards

- Award for "Best Student Talk" at the conference *PAPAP19*
- Scholarship for academic excellence
 - Received for all academic years from 2014/2015 until 2018/2019