

Luca Schinnerl

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EDUCATION

Ludwig-Maximilians-University Munich

Master of Science

Munich, Germany

April 2020 - Expected July 2022

- Main focus of research in data science and artificial intelligence.
- Currently working on my master's thesis in high energy physics at the Belle II experiment. We utilize Graph Attention Networks to speed up simulation processes.

Yonsei University

Master of Science - LMUexchange-Scholarship

Seoul, South Korea

August 2020 - July 2021

- Conducted research in data science and economics, with graph neural networks, natural language processing and panel data analysis.
- Attended graduate level financial derivatives courses.
- Overall grade in relevant courses: A+.

KU Leuven

Bachelor of Science - Erasmus+-Scholarship

Leuven, Belgium

September 2018 - February 2019

- Attended economics and climate change lectures.
- Practical experience in statistical physics and Monte Carlo methods.

Ludwig-Maximilians-University Munich

Bachelor of Science

Munich, Germany

October 2016 - August 2019

- Focused on mathematical and computational physics.
- Bachelor-thesis: Feynman Rules in Quantum Mechanics and Quantum Field Theory and the Role of Path Integrals (1.3).

EXPERIENCE

Graduate Teaching Assistant

Ludwig-Maximilians-University Munich

October 2021 – Present

Munich, Germany

- Advanced nuclear and particle physics tutor for students who are in the final year of the bachelor physics program.
- Responsible for over 20 students to teach advanced mathematical methods used in high energy physics.
- Grade exams and provide feedback on exercises distributed to students.

Financial Consultant Intern

KPMG Germany

February 2021 – April 2021

Munich, Germany

- Researched and evaluated scientific articles on the subject of AI in insurance.
- Consulted one of the largest insurance companies world wide on becoming more data driven.
- Weekly participation in meetings with senior partners from the financial services sector to discuss new approaches and solutions.
- Developed and built a script to automate posting examples with VBA, which drastically reduced manual labor to input and manipulate data.

Scientific Assistant

Ludwig-Maximilians-University Munich

February 2019 – August 2020

Munich, Germany

- Taught statistics and data analysis to evaluate experimental results.
- Supervised laboratory experiments for in total over 150 first year physics-, dental- and medical students. Topics included classical and quantum mechanics, X-rays and (quantum) optics.
- Showed how to scientifically proof theories using data gathered from over 16 experiments.
- Instructed students on standard libraries in Python and Gnuplot to fit and visualise data.

SKILLS

Programming and Frameworks: Python, Rust, Git

Libraries: Seaborn, Pytorch, Tensorflow, Keras, Scikit-Learn, Numpy, Pandas

Languages: German (native), English (TOEFL: 110/120), Dutch (fluent)