

Luca Schinnerl

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EDUCATION

Ludwig-Maximilians-University Munich

Munich, Germany

Master of Science

April 2020 - Expected July 2022

- Focus on research in data science and artificial intelligence.
- Currently working on my master's thesis in high energy physics at the Belle II experiment. We utilise Graph Attention Networks to speed up simulation processes.
- Presented results at the 2022 DPG conference in Heidelberg, Germany.

Yonsei University

Seoul, South Korea

Master of Science - LMUexchange-Scholarship

August 2020 - July 2021

- Developed a new algorithm to process large graph structured data with network embedding (unsupervised learning).
- Utilised graph neural networks, natural language processing and panel data analysis to analyse data.
- Overall grade in relevant courses: A+.

KU Leuven

Leuven, Belgium

Bachelor of Science - Erasmus+-Scholarship

September 2018 - February 2019

- Gathered practical experience in statistical physics by applying Monte Carlo methods.

Ludwig-Maximilians-University Munich

Munich, Germany

Bachelor of Science (2.07)

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

Data Science Working Student

February 2022 – Present

IABG

Munich, Germany

- Data scientist working in the innovation center.
- Research in robustness of deep neural networks.

Graduate Teaching Assistant

October 2021 – February 2022

Ludwig-Maximilians-University Munich

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.
- Graded exams and provide feedback on exercises distributed to students.

Financial Consultant Intern

February 2020 – April 2020

KPMG Germany

Munich, Germany

- Developed and built a script to automate manual data input and manipulation with VBA.
- 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.

Scientific Assistant

February 2019 – August 2020

Ludwig-Maximilians-University Munich

Munich, Germany

- Instructed students on standard libraries in Python and Gnuplot to fit and visualise data.
- Taught statistics and data analysis to evaluate experimental results.
- Supervised laboratory experiments for over 150 first year physics-, dental- and medical students.

SKILLS

Programming and Frameworks: Python, Rust, Stata, Git, VBA

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

IT: GNU/Linux, Shell Scripting

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