

LAURIN STEINER

M.Sc. Quantum Science and Technology | Technical University Munich

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Garching, Germany



PROFILE

Physics graduate student at the Technical University of Munich with strong background in quantitative modeling, programming, and complex problem solving. Research experience in quantum technologies and founder of two technology ventures. Experienced in simulation, data analysis, and technology strategy.

WORK EXPERIENCE

Co-Founder & CEO – Quantum Enhanced Metal Detection	2025 - present
<ul style="list-style-type: none">Developing NV-center diamond sensors for improved UXO detectionCurrently selected for TUM XPLORE FreerideLeading strategy, technology roadmap and fundraising40+ customer interviews, built market model and analysis and pricing model	
Working Student at Walther Schottky Institute	2020 - 2024
<ul style="list-style-type: none">Fabrication of 50+ semiconductor samples in a cleanroom for different experimentsDeveloped 5+ PCBs for transport measurements, optical measurements and RF experimentsDesigned and simulated semiconductor exciton trap structures (0D/1D) using COMSOL and PythonDesigned and simulated coplanar waveguides and RF structures using ANSYS HFSS	
Co-Founder & CTO - Cryogenius	2021 - 2022
<ul style="list-style-type: none">Technology startup project in cooperation with the Walther Schottky Institute and the TUM Quantum Venture LabsDeveloping a new mid-range opto-magnetic cryostat for research in 2D MaterialsResponsible for the technological development	
Ultra-Reflex GmbH – Web development and Digital Transformation	2019 - 2021
<ul style="list-style-type: none">Developed guided selling tool improving customer product selectionAnalyzed digitalization opportunities in production processesSupported data collection and automation initiatives	
Founder - Steiner Marketing Solutions	2020 - present
<ul style="list-style-type: none">Founded and operate an e-commerce business financing my studiesBuilt digital marketing and sales infrastructureManaged product development, operations, and customer acquisition	
Internship Erdrich Umformtechnik GmbH	2016
<ul style="list-style-type: none">Internship in manufacturing engineering at automotive supplier	

EDUCATION

Technische Universität München (TUM), Ludwig-Maximilian-Universität (LMU): M.Sc. Quantum Science and Technology	2023 – 2026,
<ul style="list-style-type: none">Masterthesis – Coherent transduction from microwave photons to optical photons using quantum dot molecules, at WSI, Grade 1.6	
Technische Universität München (TUM): B.Sc. Physics	2019 – 2023,
<ul style="list-style-type: none">Bachelor thesis: Evaluation of new flux-grown hBN for use in 2D electronic devices, at WSI, Grade 1.3Focus on Applied and Engineered Physics	
Technische Universität München (TUM): B.Sc. Informatics	2019 – 2020,
<ul style="list-style-type: none">Praktikum Grundlagen der Programmierung (JAVA), introduction to programming	
Gymnasium Achern A levels (Abitur)	2012 – 2019,
<ul style="list-style-type: none">Majors: Physics and Economics, awarded for outstanding potential in physics	

ENTREPRENEURSHIP / LEADERSHIP

Programs completed at **TUM**, **UnternehmerTUM** and **Academy for Innovators**

- Business plan Advanced Seminar
- Tech Challenge
- Think.Make.Start
- Quantum Entrepreneurship Laboratory
- Selected for **Quantum Fellowship Program** (top 10 students/year)
- Quantum Idea Lab

PUBLICATIONS & PRESENTATIONS

Alain Dijkstra, Amine Ben Mhenni, Dinh Van Tuan, Elif Çetiner, Muriel Schur-Wilkens, Junghwan Kim, Laurin Steiner, Kenji Watanabe, Takashi Taniguchi, Matteo Barbone, Nathan P. Wilson, Hanan Dery & Jonathan J. Finley. Ten-valley excitonic complexes in charge-tunable monolayer WSe₂. Nat Commun 16, 9743 (2025). <https://doi.org/10.1038/s41467-025-65731-x>

Poster: “Quantum Dot Molecules as a Mediator for Microwave to Optical Transduction”, Mauterndorf Winterschool 2025, MCQST Conference 2025

ADDITIONAL ACTIVITIES

Venture Lab Summer School

- One week course on how to build a start-up out of research

Tum.ai Makeathon

- Developing an AI solution for ESA, challenge winner

Start Munich AI Hackathon

- Building an AI tool for personalized Ads

HarvardX – R Programming

SKILLS & INTERESTS

Languages: German (native), English (fluent C1 – C2), French (B2), Italian (B1)

Programming: Python, R, Java, Javascript, HTML, CSS, SQL, qiskit

Scientific Software: Mathematica, Matlab, LaTeX, COMSOL, ANSYS HFSS

Engineering and Design: Fusion360, Altium Designer, Solid Works

Other: MS Office

Societies: Deutsche Physikalische Gesellschaft (DPG), Verein Deutscher Ingenieure (VDI, Technical Committee for Quantum Technologies)

Interests: Quantum Physics, Economics, Entrepreneurship, Football, Technologies, Personal Development, Meditation and Sports