

Dr. Bernd Jungbauer

Experience

11/2020 – 09/2022 **Managing Director**

[Quantum Valley Lower Saxony \(QVLS\) e.V.](#), Hannover

QVLS e.V. brings together Lower Saxony's leading research institutions and industry partners to coordinate their activities in the field of quantum technology, strategically develop them, and make them visible.

- Established and operated the office in close consultation with the board and other association bodies
- Developed and implemented the [strategy](#) to promote the quantum ecosystem and regional value creation
- Designed programs with partners from industry and academia and successfully applied for funding programs, such as [QVLS-iLabs](#) (20 million €), [QVLS-HTI](#) (9 million €)
- Organized internal and external events, such as the [initiative launch](#) and various [press tours, including with Prime Minister Stefan Weil](#)
- Representation of QVLS at [trade fairs](#), conferences, committees, and [other public appearances](#)

01/2021 – 09/2022 **Chief Operating Officer**

[QVLS-Q1](#), Hannover / Braunschweig

Lower Saxony's flagship project to build the 50-qubit quantum computer "QVLS-Q1" is funded by the VW Foundation with 25 million €. More than 200 scientists are researching the project, spread over 20 teams at Leibniz University Hannover, the Physikalisches Institut, and TU Braunschweig.

- Made sure the key goals and specifications as well as the overall budget of the project are met
- Communicated with all the stakeholders and specifically reported to the funding agency
- Developed new workflows and tools for monitoring (budget) indicators across all teams and institutions
- Established and commissioned an institute-wide cloud infrastructure

01/2015 – 06/2020 **Ph.D. Student**

[AG Nanooptik](#), Humboldt University of Berlin

- Developed software and hardware for fully automated characterization of hundreds of single-photon emitters
- Collaborated closely with industry partners in product development
- Established and maintained server infrastructure for simulations and data storage
- Several months long stays as a scientific advisor in Sydney, Pernambuco, and Lausanne

Physics Studies

01/2015 – 06/2020 **Ph.D.**, (Grade: magna cum laude)

Humboldt-Universität zu Berlin

- Fields of study: quantum technology, nano-optics, solid-state physics, spectroscopy
- Dissertation: "Characterization and Usage of Novel Solid-State Quantum Emitters"
- Advisor: [Prof. Oliver Benson](#)

10/2012 – 12/2014 **Master of Science**, (Grade: 1.8)

Humboldt-Universität zu Berlin / Freie Universität Berlin

- Specializations: optics, nanophysics, biophysics
- Minor: computer science
- Master's thesis: "Optical and Spin Coherence Properties of NV-Centers in Nano Diamond"
- Advisors: [Prof. Oliver Benson](#), [Prof. Janik Wolters](#)

10/2009 – 09/2012 **Bachelor of Science**, (Grade: 1.7)

Universität Konstanz

- Specializations: measurement and control technology, computer physics
- Minors: computer science, economics
- Bachelor's thesis: "Low Temperature Spectroscopy of Semiconductor Quantum Dots"
- Advisors: [Prof. Alfred Leitensdorfer](#), [Prof. Glenn Solomon](#)