Adrian Beckert

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Research	experience

 Postdoctoral Scholar (SNF Fellowship 2021-2023) with <u>Andrei Faraon</u> in the <i>Nanoscale and Quantum optics</i> group (Caltech, Pasadena, CA) Establishing a new research branch: Silicon color centers 	10/2021 – present
 Doctor of Science ETH Zürich in Physics with Gabriel Aeppli in the Quantum Technologies group (Paul Scherrer Institut, Switzerland) Coherent manipulation of crystal-field level in LiY_xTb_{1-x}F₄ with EPR Ultra-high resolution FTIR spectroscopic study of coherence and hyperfine coupling in rare-earth quantum magnets (LiY_xRE_{1-x}F₄, RE=Ho, Tb, Tm, Er) Recommissioning and operation of ultra-high resolution FTIR at the Swiss Synchrotron Light Source with low-temperature sample environment. 	05/2017 – 08/2021
 Research assistant, with <u>Andreas Wallraff</u> in the <i>Quantum Device Lab</i> (ETH Zürich, Switzerland) Preparing and executing the "Big Bell Test" experiment Designing a longitudinal readout circuit for a transmon qubit Exploring sources of decoherence for superconducting circuits 	05/2016 – 04/2017
 Master's thesis, with <u>Andreas Wallraff</u> in the <i>Quantum Device Lab</i> (ETH Zürich, Switzerland) Title: Towards the realization of a transmon longitudinally coupled to a lumped element resonator 	09/2015 – 04/2016
Education	
 Doctor of Science ETH Zürich in Physics with Gabriel Aeppli in the Quantum Technologies Group (Paul Scherrer Institut, Switzerland) Quantum information and solid-state physics with rare-earth ions 	05/2017 – 06/2021
 Master of Science ETH in Physics with <u>Andreas Wallraff</u> in the <i>Quantum Device Lab</i> (ETH Zürich, Switzerland) Quantum information, superconducting circuits solid-state physics 	09/2014 – 04/2016
Bachelor of Science ETH in Physics at ETH Zürich (Switzerland)	09/2011 – 08/2014

Awards and honors

Fellowship (Postdoc.mobility, 2 years) of the Swiss National Science foundation10/2021 - presentMember of the Swiss Study foundation for highly skilled students11/2011 - 01/2022Award "best degree of the year" (valedictorian) for the Swiss Matura in Aarau06/2010

Memberships in scientific societies

American Physical Society	10/2021 – present
Swiss Physical Society	10/2020 – present
Swiss Society for Photon Science	10/2020 – present

Teaching activities & certificates

Teaching Certificate of Practice (CTLO, Caltech)	04/2022 – present
Three graduate lectures (Caltech, <u>EE/APh130</u> , 90 min each)	Fall term 2023
Two graduate lectures (Caltech, <u>EE/APh130</u> , 90 min each)	Fall term 2022
Columbia EdX course (6 x 2.5h) on "Inclusive Teaching"	Spring term 2022
Learning to Teach certificate (ETH Zürich)	01/2017
TA in Physics I (ETH Zürich)	02/2017 – 04/2017
Tutoring in physics, mathematics and Swiss Matura subjects	05/2009 – 04/2016

Outreach activities

Talks & live demonstration of experiments Talk & discussion at symposium, "Bell's inequality and its implication on our reality", Lenzburg, Switzerland 10 experiments & talk at Martin foundation for mentally disabled children, "See, 08/2016 amaze & levitate", Zürich, Switzerland 5 experiments & talk at youth event, "Laws of nature", Lenzburg, Switzerland