
Curriculum Vitae

Clemens Dlaska

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Personal Details

Titles: Univ.-Prof., Dr. med. univ., BSc, MSc, PhD
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About

Clemens Dlaska is Professor of Digital Medicine in Cardiology at the Medical University of Innsbruck. As a theoretical physicist and medical doctor his research aims at leveraging the possibilities of novel technologies to ultimately improve health care. Current research directions he investigates with his team include the development and deployment of novel, clinically relevant, artificial intelligence/machine learning algorithms, as well as exploring how smart devices can be utilized to improve screening and diagnosing of cardiovascular diseases. Another research direction involves potential health care applications of quantum technologies such as quantum sensors and quantum computers.

Professional Experience

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| 2024 – present | Professor of Digital Medicine in Cardiology <ul style="list-style-type: none">- Head of Digital Cardiology Lab, Medical University of Innsbruck, University Clinic of Internal Medicine III - Cardiology and Angiology |
| 2021 –2024 | Universitätsassistent <ul style="list-style-type: none">- University of Innsbruck, Institute for Theoretical Physics- Quantum Optimization group led by Prof. Wolfgang Lechner |
| 2017 – 2021 | Research associate <ul style="list-style-type: none">- University of Innsbruck, Institute for Theoretical Physics, and Austrian Academy of Sciences, Institute for Quantum Optics and Quantum Information (IQOQI) Innsbruck- Quantum Optimization group led by Prof. Wolfgang Lechner |

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| 2016 – 2017 | Scientific assistant <ul style="list-style-type: none"> - ETH Zürich, Institute for Neuroinformatics and Institute for Biomedical Engineering - Neurotechnology group led by Prof. Mehmet Fatih Yanik |
| 2015 – 2016 | Research associate <ul style="list-style-type: none"> - University of Innsbruck, Institute for Theoretical Physics and Austrian Academy of Sciences, IQOQI Innsbruck - Quantum Optics and Quantum Information group led by Prof. Peter Zoller |

Higher Education

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| 2017 – 2023 | Doctor of Philosophy (PhD) in Physics , University of Innsbruck
Thesis: <i>Algorithm and Hardware co-design for parity quantum computing – State preparation, quantum optimization and Rydberg implementation</i>
Advisor: Prof. Wolfgang Lechner, Institute for Theoretical Physics |
| 2012 – 2015 | Master of Science (MSc) in Physics , University of Innsbruck
Thesis: <i>Superradiance with Rubidium atoms in Rydberg P-states</i>
Advisor: Prof. Peter Zoller, Institute for Theoretical Physics and IQOQI |
| 2008 – 2012 | Bachelor of Science (BSc) in Physics , University of Innsbruck
Thesis: <i>Photodetektion und Quantenrauschen</i>
Advisor: Prof. Helmut Ritsch, Institute for Theoretical Physics |
| 2006 – 2013 | Medical doctor (Dr. med. univ.) , Medical University of Innsbruck
Thesis: <i>Dihydropyridine sensitivity of an embryonic $Ca_v1.1$ Ca^{2+} channel splice variant</i>
Advisor: Prof. Bernhard Flucher, Institute of Physiology |