

Jonas Junker

Junior Group Leader in Quantum Optics

Friedrich Schiller University Jena

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Research Profile

Experimental physicist specialising in quantum optics and continuous-variable quantum technologies, with a focus on non-classical light, all-optical coherent control, and high-bandwidth quantum measurement for applications in quantum sensing and information processing.

Research Experience

Junior Group Leader , Quantum Optics	since 01/2026
Friedrich Schiller University Jena, Germany	
Postdoctoral Researcher	01/2025 – 12/2025
Technical University of Denmark, Denmark	
Research Fellow	09/2024 – 12/2024
ANU Centre for Gravitational Astrophysics, Australia	
Postdoctoral Fellow	09/2023 – 08/2024
ANU Centre for Gravitational Astrophysics, Australia	
Postdoctoral Fellow	03/2023 – 08/2023
Max Planck Institute for Gravitational Physics, Germany	
Research Assistant	12/2016 – 02/2023
Max Planck Institute for Gravitational Physics, Germany	

Education

PhD in Physics	2016 – 2023
Leibniz University Hannover, Germany	
Thesis: <i>Quantum Metrology Using Tailored Non-Classical States</i>	
M.Sc. in Physics	2014 – 2016
Leibniz University Hannover, Germany	
B.Sc. in Physics	2010 – 2014
Leibniz University Hannover, Germany	

Publications

Author and co-author of peer-reviewed publications in leading journals including *Physical Review Letters*, *Optics Letters*, *Optics Express*, *Physical Review Applied*, and *Classical and Quantum Gravity*. A full publication list is available on request or via ORCID.

Full academic CV with complete publication list available upon request.