Oliver R. Stockdale **Curriculum Vitae**

Personal Information

Place & Date of Birth: Durham, United Kingdom | 4 September 1997

Place of Residence: Heidelberg, Germany

Citizenship: British & Australian (naturalised)
Email: oliver.stockdale@kip.uni-heidelberg.de

Website: oliver-stockdale.com

Qualifications

Mar 2021	Master of Philosophy in Physics, The University of Queensland, Australia
Dec 2018	Bachelor of Advanced Science (Hons. I) in Physics, The University of Queensland , Australia
Dec 2014	Queensland Certificate of Education, Grace Lutheran College, Australia

Education

Oct 2020 - Present	Doctoral Studies in Physics, Kirchhoff-Institut für Physik , Universität Heidelberg , Germany (Anticipated completion: Sep 2023)
Apr 2019 - Sep 2020	Master of Philosophy in Physics, ARC Centre of Excellence in Future Low-Energy Electronics Technologies, The University of Queensland, Australia Thesis title: Dynamics of vortex cluster crystallisation and single-vortex pinning in two-dimensional superfluids
Jan 2019	Australian and New Zealand School in Ultracold Physics, The University of Otago , New Zealand
2015 - 2018	Bachelor of Advanced Science in Physics, The University of Queensland , Australia Thesis title: <i>Models of vortex dynamics in thin-film superfluid helium</i>
Jan 2018	Canberra International Physics Summer School on <i>Topological Matter</i> , The Australian National University , Australia
Sep - Dec 2016	Exchange Program, University College London, United Kingdom
2010 - 2014	High School, Grace Lutheran College, Australia

Teaching Experience

Summer Semester 2021	Tutor for Quantum Computing and Quantum Information, Universität Heidelberg, Germany
Semester 2, 2019	Tutor for Statistical Mechanics at The University of Queensland, Australia
Semester 2, 2018 &	Laboratory Demonstrator for <i>Electromagnetism and Modern Physics</i> , The University of
Semester 1, 2019 &	Queensland, Australia
2020	
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Semester 1, 2018, 2019,	Laboratory Demonstrator for Mechanics and Thermal Physics, The University of
& 2020	Queensland, Australia
Semester 2, 2017	Tutor for Physical Basis of Biological Systems, The University of Queensland, Australia
Semester 1, 2016 & 2017	Peer Assisted Study Session leader for Electromagnetism and Modern Physics, The University of Queensland , Australia

Service

Mar 2021 - Present	Student Representative, Equal Opportunities Team, ISOQUANT, Heidelberg	
Feb 2021 - Present	PhD Student Contributor, Physics World	
Apr 2019 - Sep 2020	ARC Centre of Excellence in Future Low-Energy Electronics Technologies Special Governance Committee - Education and Training	
May 2019 - Sep 2020	Chair, UQ Bose-Einstein Condensate Journal Club	
May 2019 - Sep 2020	Volunteer, UQ Physics Museum	

Scholarships and Awards

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Jan 2021	Recommendation for Dean's Award for Outstanding Higher Degree by Research Thesis, The University of Queensland
Jun 2019	Runner-Up, School of Mathematics and Physics 3-Minute Thesis Competition
Apr 2019 - Sep 2020	Research Training Program, Australian Government
Feb - Mar 2019	Australian Research Council Centre of Excellence for Engineered Quantum Systems Work Experience Scholarship
Dec 2018	Best Poster by an undergraduate student, FLEET Annual Meeting
Jun 2016	The University of Queensland Student Exchange Scholarship
May 2016 & 2017	Winter Research Scholarship, The University of Queensland (×2)
Nov 2015 & 2017	Summer Research Scholarship, The University of Queensland ($\times 2$)
Jul 2015, Jul 2018, Dec 2018	Dean's Commendation for Academic Excellence, The University of Queensland (×3)
Nov 2014	Runner-Up Dux of Grace Lutheran College

Referees

Prof. Matthew J. Davis	Prof. Warwick P. Bowen
Head of Physics,	ARC Future Fellow,
The University of Queensland	The University of Queensland
mdavis@physics.uq.edu.au	wbowen@physics.uq.edu.au
(+61)733469824	(+61)733469425

Publications (and Preprints)

- Feb 2021 O. R. Stockdale, M. T. Reeves, M. J. Davis, Dynamical mechanisms of vortex pinning in superfluid thin films. arXiv:2102.04712 (2021).
- Oct 2020 M. T. Reeves, K. Goddard-Lee, G. Gauthier, O. R. Stockdale, H. Salman, T. Edmonds, X. Yu, A. S. Bradley, M. Baker, H. Rubinsztein-Dunlop, M. J. Davis, T. W. Neely, *Emergence of off-axis equilibria in a quantum vortex gas.* arXiv:2010.10049 (2020).
- Jul 2020 O. R. Stockdale, M. T. Reeves, X. Yu, G. Gauthier, K. Goddard-Lee, W. P. Bowen, T. W. Neely, M. J. Davis, *Universal dynamics in the expansion of vortex clusters in a dissipative two-dimensional superfluid*. Physical Review Research 2, 033138 (2020).
- Dec 2019 Y. P. Sachkou, C. G. Baker, G. I. Harris, **O. R. Stockdale**, S. Forstner, M. T. Reeves, X. He, D. L. McAuslan, A. S. Bradley, M. J. Davis, W. P. Bowen, *Coherent vortex dynamics in a strongly-interacting superfluid on a silicon chip*. Science, **366**, 1480 (2019).

Conferences

- May 2021 | Young Atom Optician Conference (YAO-2021), Aarhus, Denmark (Online, due to COVID)
 Poster Presentation

 Mar 2021 | Americal Physical Society March Meeting 2021 (Online, due to COVID)
 Contributed Talk
 - Jan 2020 | 10th International Conference on Spontaneous Coherence in Excitonic Systems, Melbourne, Australia
 Contributed Talk
- Dec 2018 | 23rd Australian Institute of Physics Congress, Perth, Australia Poster Presentation