Reuben R. W. Wang, PhD Student

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Education

2019 – current **Ph.D., JILA, University of Colorado Boulder** Physics.
Research: *Theoretical atomic and molecular physics.*

2019 – 2022 **M.S., University of Colorado Boulder** Physics.
Grade: *Summa Cum Laude.*

2017 – 2018 **U.G., Massachusetts Institute of Technology** Physics.
Grade: *Summa Cum Laude.*

2015 – 2019 **B.Eng., Singapore University of Technology and Design** EPD.
Grade: *Summa Cum Laude.*

Work Experience

2019 – current **Graduate Research Assistant,** JILA.

2018 **Instructor, *The Quantum World (IAP course)*,** SUTD.

2017 **Teaching Assistant, *Engineering in the Physical World (10.008)*,** SUTD.

Teaching Assistant, *Advanced Mathematics 2 (10.004)*, SUTD.

2016 **Undergraduate Research Assistant,** SUTD-MIT IDC.

Research Publications

Journal Articles

1. Li, J.-R., Tobias, W. G., Matsuda, K., Miller, C., Valtolina, G., De Marco, L., … Bohn, J. L. et al. (2021). Tuning of dipolar interactions and evaporative cooling in a three-dimensional molecular quantum gas. *Nature Physics*, *17*(10), 1144–1148. Retrieved from https://doi.org/10.1038/s41567-021-01329-6

2. Wang, R. R. W., & Bohn, J. L. (2021). Anisotropic thermalization of dilute dipolar gases. *Phys. Rev. A*, *103*, 063320. doi:10.1103/PhysRevA.103.063320

3. Wang, R. R. W., Sykes, A. G., & Bohn, J. L. (2020). Linear response of a periodically driven thermal dipolar gas. *Phys. Rev. A*, *102*, 033336. doi:10.1103/PhysRevA.102.033336

4. Wang, R. R. W., Xing, B., Carlo, G. G., & Poletti, D. (2018). Period doubling in period-one steady states. *Phys. Rev. E*, *97*, 020202. doi:10.1103/PhysRevE.97.020202

Preprints

1. Wang, R. R. W., & Bohn, J. L. (2022). Thermal conductivity of an ultracold paramagnetic bose gas. doi:10.48550/ARXIV.2205.10465

2. Patscheider, A., Chomaz, L., Natale, G., Petter, D., Mark, M. J., Baier, S., … Ferlaino, F. (2021). Accurate determination of the scattering length of erbium atoms. arXiv: 2112.11883 [cond-mat.quant-gas]. Retrieved from https://arxiv.org/abs/2112.11883

Skills

Languages	Reading, writing and speaking competencies for English, Mandarin Chinese.
Software	MATLAB, Mathematica, Python, C++, LaTeX, SOLIDWORKS.
Experience	Academic research, LaTeX typesetting and publishing, mechanical design and fabrication.

Awards and Achievements

Scholarships

2019 **Graduate Student Fellowship**, UCB.

2016 **Global Leadership Scholarship**, SUTD-MIT.

2015 **Undergraduate Merit Scholarship**, SUTD.

Awards

2015–2019 **Honors List**, SUTD.

2018 **Laurel (Technology and Design) Award**, SUTD.

References

Available on Request