

# Reuben R. W. Wang, PhD Student

✉ reuben.wang@colorado.edu

🌐 <https://reubenwangrongwen.github.io/>

🌐 <https://www.linkedin.com/in/reuben-wang-10b9ab137/>



## 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 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.

## Skills (continued)

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Software      MATLAB, Mathematica, Python, C++, L<sup>A</sup>T<sub>E</sub>X, SOLIDWORKS.  
Experience    Academic research, L<sup>A</sup>T<sub>E</sub>X typesetting and publishing, mechanical design and fabrication.



## Awards and Achievements

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### 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

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Available on Request