

# Reuben R. W. Wang, PhD Student

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

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## Employment Positions

- 2019 – current    📌 **Graduate Research Assistant**, JILA.  
2016    📌 **Undergraduate Research Assistant**, SUTD-MIT IDC.

## Education

- 2019 – current    📌 **Ph.D., University of Colorado Boulder** Physics.  
Grade: *Summa Cum Laude*.  
Research: *Nonequilibrium thermodynamics of ultracold dipolar gases*.  
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*.

## 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.  
Software    📌 MATLAB, Mathematica, Python, C++,  $\LaTeX$ , SOLIDWORKS.  
Experience    📌 Academic research,  $\LaTeX$  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.

## References

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Available on Request