

# Yutian Wen

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Department of Physics & Astronomy,  
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## Employment

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|-----------------------|-----------------------------------------------------------------|
| Jan. 2025 - present   | Research assistant professor, <i>University of Notre Dame</i> . |
| Jan. 2024 - Jan. 2024 | Postdoctoral researcher, <i>University of Notre Dame</i> .      |
| Jun. 2023 - Jan. 2024 | Postdoctoral researcher, <i>ENS de Lyon</i> .                   |
| Apr. 2020 - May. 2023 | Postdoctoral researcher, <i>CEA Saclay</i> .                    |

## Education

|                       |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Oct. 2015 - Mar. 2020 | DPhil materials, <i>Oxford University</i> .                        |
| Oct. 2011 - Jun. 2015 | B.Eng Electrical Engineering, <i>Shanghai Jiao Tong University</i> |

## Publications

An up-to-date version is available on Google Scholar.

1. Yutian Wen, V Ranjan, T Lorriaux, D Vion, B Huard, A Bienfiat, E Flurin, P Bertet. “Addressing spins at the clock transitions with a frequency and bandwidth-tunable superconducting resonator”. *in preparation* (2025)
2. Yutian Wen<sup>†</sup>, T Lorriaux<sup>†</sup>, P Bertet, B Huard, A Bienfiat. “Dynamic nuclear polarisation of bismuth donors in silicon”. *in preparation* (2024)
3. József Zsolt Bernád, Michael Schilling, Yutian Wen, Matthias M Müller, Tommaso Calarco, Patrice Bertet, Felix Motzoi. “Analytical solutions for optimal photon absorption into inhomogeneous spin memories”. *arXiv:2401.04717* (2025)
4. V Ranjan, Y Wen, AKV Keyser, SE Kubatkin, AV Danilov, T Lindström, P Bertet, SE de Graaf. “Spin-Echo Silencing Using a Current-Biased Frequency-Tunable Resonator”. *Physical Review Letters*. DOI: 10.1103/PhysRevLett.129.180504 (2022)
5. FJ Schupp, F Vigneau, Yutian Wen, A Mavalankar, J Griffiths, GAC Jones, I Farrer, DA Ritchie, CG Smith, LC Camenzind, L Yu, DM Zumbühl, G Andrew D Briggs, N Ares, EA Laird. “Sensitive radiofrequency readout of quantum dots using an ultra-low-noise SQUID amplifier”. *Journal of Applied Physics*. DOI:10.1063/5.0005886. (2020)
6. Y. Wen, N. Ares, F.J. Schupp, T. Pei, G.A.D. Briggs, E.A. Laird. “A coherent nanomechanical oscillator driven by single-electron tunneling”. *Nature Physics*. DOI:10.1038/s41567-019-0683-5.(2020, cited 80 times).
7. Y. Wen, N. Ares, T. Pei, G.A.D. Briggs, E.A. Laird. “Measuring carbon nanotube vibrations using a single-electron transistor as a fast linear amplifier”. *Applied Physics Letters*, 113(15), 153101. (2018)
8. Y. Wen, X. Wu, Q. Lin, G. He. “Five-Partite Entanglement Generation in A High-Q Microresonator”. *Physical Review A*, 91(4), 042311. (2015).
9. Y. Wen, J. Shi, Z. Huang, X. Tian, H. Yu, X. Gan and F. Yang. “Quality-Driven Auction based Incentive Mechanism for Mobile Crowd Sensing”. *Vehicular Technology, IEEE Transactions on*, 64(9), pp.4203-4214 (2015, cited 248 times)

10. Y. Wen, X. Tian, X. Gan, X. Wang, S. Lu, “Fundamental Limits of RSS Fingerprinting based Indoor Localization”. *Proc. of IEEE INFOCOM*, pp.2479-2487 (2015, cited 140 times)
11. X. Tian, R. Shen, D. Liu, Y. Wen, and X. Wang. “Performance analysis of RSS fingerprinting based indoor localization”. *IEEE Transactions on Mobile Computing*, 16(10), pp.2847-2861 (2017, cited 98 times)
12. Q. Zhang, Y. Wen, X. Tian, X. Gan, X. Wang. “Incentivize Crowd Labeling under Budget Constrain”. *Proc. of IEEE INFOCOM* pp.2812-2820 (2015, cited 119 times)