

# FENGYU ZHOU

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## EDUCATION

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**California Institute of Technology**  
Ph.D. Student in Electrical Engineering

*September 2016 - Present*  
Overall GPA: 4.1/4.0

**Tsinghua University**  
Bachelor in Electronic Engineering

*August 2012 - June 2016*  
Overall GPA: 94.27/100

**The University of Texas at Austin**  
Exchange Student in Electrical Engineering

*August 2014 - December 2014*  
Overall GPA: 4.0/4.0

## PUBLICATIONS

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1. F. Zhou, A. S. Zamzam, S. H. Low, and N. D. Sidiropoulos, *Exactness of OPF Relaxation on Three-phase Radial Networks with Delta Connections*, submitted.
2. F. Zhou, S. H. Low, *A Sufficient Condition for Local Optima to be Globally Optimal*, accepted to Conference on Decision and Control (CDC). IEEE, Dec. 2020.
3. F. Zhou, S. H. Low, *A Note on Branch Flow Models with Line Shunts*, accepted to IEEE Transactions on Power Systems.
4. J. Anderson, F. Zhou, and S. H. Low, *Worst-Case Sensitivity of DC Optimal Power Flow Problems*, American Control Conference (ACC). IEEE, July 2020.
5. F. Zhou, J. Anderson, and S. H. Low, *The Optimal Power Flow Operator: Theory and Computation*, conditionally accepted to IEEE Transactions on Control of Network Systems.
6. F. Zhou, Y. Chen, and S. H. Low, *Sufficient Conditions for Exact Semidefinite Relaxation of Optimal Power Flow in Unbalanced Multiphase Radial Networks*, Conference on Decision and Control (CDC). IEEE, Dec. 2019.
7. F. Zhou, J. Anderson, and S. H. Low, *Differential Privacy of Aggregated DC Optimal Power Flow Data*, American Control Conference (ACC). IEEE, July 2019; Best Student Paper Finalist.
8. J. Anderson, F. Zhou, and S. H. Low, *Disaggregation for Networked Power Systems*, Power Systems Computation Conference (PSCC). IEEE, June 2018.
9. F. Zhou and Y. Shen, *On the Outage Probability of Localization in Randomly Deployed Wireless Networks*, IEEE Communications Letters, vol. 21, no. 4, pp. 901-904, April 2017.
10. F. Yang, F. Zhou, and Y. Shen, *On the Existence of Infinite Localizable Nodes in Stochastic Networks*, International Conference on Communications (ICC). IEEE, 2018.
11. F. Zhou et al., *Extending the Frequency Range of Surface Plasmon Polariton Mode with Meta-Material*, Nano-Micro Letters, vol. 9, no. 1, p. 9, Sep. 2016.

## SELECTED AWARDS AND HONORS

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- Student Travel Support Award, 59th IEEE Conference on Decision and Control 2020
- Best Student Paper Award Finalist in 2019 American Control Conference 2019
- Citadel/CorrelationOne Datathon SoCal (rank #2) 2017
- Bloomberg Code Contest at Caltech (rank #3) 2016
- Tsinghua University Excellent Graduate (top 1%) 2016
- December 9<sup>th</sup> Scholarship (top 1% of students, for outstanding overall performance) 2014
- Singapore Technologies Engineering Scholarship (top 2%, for academic excellence) 2014, 2015
- Second Prize (top 6%) in Contemporary Undergraduate Mathematical Modeling Contest 2014
- Honorable Mention in COMAP Mathematical Contest In Modeling 2015
- UT-Austin Rams Horn Best Project Award 2014

## WORKING EXPERIENCE

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**iRobot** (Software Engineer Intern)  
**nuro** (Software Engineer Intern)

*June 2017 - September 2017*  
*June 2019 - September 2019*