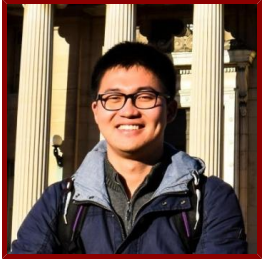


# Stanford

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## Yu Wang

- Ph.D. Student in Mechanical Engineering, admitted Spring 2016
- Ph.D. Minor, Management Science and Engineering

### Bio

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#### EDUCATION AND CERTIFICATIONS

- Ph.D. Candidate, Stanford University , Mechanical Engineering
- Master of Science, Stanford University , Statistics (2019)
- Master of Science, Stanford University , Mechanical Engineering (2016)
- Bachelor of Engineering, University of Science and Technology of China , Mechanical Engineering (2014)

#### STANFORD ADVISORS

- Hai Wang, Doctoral Dissertation Reader (AC)
- Ronald Hanson, Doctoral Dissertation Advisor (AC)
- Craig Bowman, Doctoral Dissertation Reader (AC)

#### LINKS

- Hanson Group: <http://hanson.stanford.edu/>
- LinkedIn: <https://www.linkedin.com/in/yu-wang-8ba54575>
- Google Scholar: <https://scholar.google.com/citations?user=CHMyG28AAAAJ&hl=en>
- Photography @Unsplash: <https://unsplash.com/@stanyw>

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Statistical learning, shock tube engineering, network analysis

#### LAB AFFILIATIONS

- Ronald Hanson, Advanced Laser Diagnostics and Shock Tube Lab (9/22/2014)

### Professional

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#### WORK EXPERIENCE

- Graduate course Assistant for ME367 (Optical Diagnostics and Spectroscopy Laboratory) - Stanford University (4/2/2018 - 6/6/2018)
- Graduate course assistant for CS229 (Machine Learning) - <http://cs229.stanford.edu> (9/27/2018 - 12/15/2018)

## Publications

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### PUBLICATIONS

- **A new method of estimating derived cetane number for hydrocarbon fuels** *FUEL*  
Wang, Y., Cao, Y., Wei, W., Davidson, D. F., Hanson, R. K.  
2019; 241: 319–26
- **A multi-wavelength speciation framework for high-temperature hydrocarbon pyrolysis** *JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER*  
Pinkowski, N. H., Ding, Y., Johnson, S. E., Wang, Y., Parise, T. C., Davidson, D. F., Hanson, R. K.  
2019; 225: 180–205
- **Single-Ended Sensor for Thermometry and Speciation in Shock Tubes Using Native Surfaces** *IEEE Sensors Journal*  
Peng, W. Y., Wang, Y., Cassady, S. J., Strand, C. L., Hanson, R. K.  
2019
- **Demonstration of non-absorbing interference rejection using wavelength modulation spectroscopy in high-pressure shock tubes** *APPLIED PHYSICS B-LASERS AND OPTICS*  
Wei, W., Peng, W., Wang, Y., Choudhary, R., Wang, S., Shao, J., Hanson, R. K.  
2019; 125 (1)
- **A streamlined approach to hybrid-chemistry modeling for a low cetane-number alternative jet fuel** *Combustion and Flame*  
Pinkowski, N. H., Wang, Y., Cassady, S. J., Davidson, D. F., Hanson, R. K.  
2019; 208: 15-26
- **On estimating physical and chemical properties of hydrocarbon fuels using mid-infrared FTIR spectra and regularized linear models** *Fuel*  
Wang, Y., Ding, Y., Wei, W., Cao, Y., Davidson, D. F., Hanson, R. K.  
2019; 255: 115715
- **Ignition delay time measurements for distillate and synthetic jet fuels** *AIAA Scitech 2019 Forum*  
Wang, Y., Cao, Y., Davidson, D. F., Hanson, R. K.  
2019
- **Investigation on laminar burning velocities of benzene, toluene and ethylbenzene up to 20 atm** *COMBUSTION AND FLAME*  
Wang, G., Li, Y., Yuan, W., Zhou, Z., Wang, Y., Wang, Z.  
2017; 184: 312–23