

# Stanford

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## Jerry Yang

- Ph.D. Student in Electrical Engineering, admitted Autumn 2020
- Master of Arts Student in Education, admitted Winter 2022

### Bio

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#### BIO

Jerry A. Yang is a PhD student in electrical engineering at Stanford University. He received his BS in electrical engineering from the University of Texas at Austin. He currently works on strain engineering in two-dimensional materials in Prof. Eric Pop's lab. In addition, he works on exploring the role of internships in first-generation and low-income engineering students' professional identity development in Prof. Sheri Sheppard's Designing Education Lab. He is a member of the Institute for Electrical and Electronics Engineers (IEEE) as well as a student member of the American Society of Engineering Education.

Jerry's research interests span both engineering, education, and the intersection of engineering and education. In the engineering field, his research interests include novel two-dimensional materials for next-generation computing, quantum computing, and flexible/wearable devices. In the education field, he is interested in diversity, equity, and inclusion in engineering education, in particular the intersection of sociology, feminist theory, and queer theory and their applications to engineering education research methods and practice.

#### PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Student Affiliate, American Society of Engineering Education (ASEE) (2018 - present)
- Member, Institute of Electrical and Electronics Engineers (IEEE) (2017 - present)
- Student Member, National Science Teachers' Association (2017 - 2019)

#### EDUCATION AND CERTIFICATIONS

- BS, University of Texas at Austin, Electrical and Computer Engineering (2020)

#### LINKS

- ORCID: <https://orcid.org/0000-0001-5521-8523>
- Google Scholar: <https://scholar.google.com/citations?user=qyYPd5QAAAAJ&hl=en>

### Research & Scholarship

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#### LAB AFFILIATIONS

- Krishna Saraswat, Saraswat Group (1/11/2021)
- Eric Pop, Poplab (9/14/2020)
- Sheri Sheppard, Designing Education Lab (9/14/2020)

## Publications

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### PUBLICATIONS

- **LGBTQ plus in ECE: Culture and (Non)Visibility** *IEEE TRANSACTIONS ON EDUCATION*  
Yang, J. A., Sherard, M. K., Julien, C., Borrego, M.  
2021; 64 (4): 345-352
- **Resistance and Community-Building in LGBTQ+ Engineering Students** *Journal of Women and Minorities in Science and Engineering*  
Yang, J. A., Sherard, M. K., Julien, C., Borrego, M.  
2021; 27 (4): 1-33
- **Buckled beam mechanical memory using an asymmetric piezoresistor for readout** *JOURNAL OF MICROMECHANICS AND MICROENGINEERING*  
Lin, J., Shuvra, P., Yang, J. A., McNamara, S., Walsh, K., Alphenaar, B.  
2020; 30 (7)