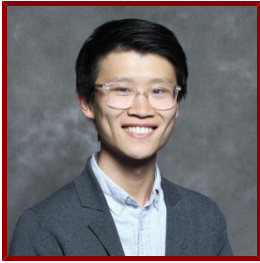


# Stanford


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## Derek Ouyang

Lecturer

Geophysics

 Curriculum Vitae available Online

### Bio

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#### BIO

Derek, age 29, graduated from Stanford University in 2013 with dual Bachelor's in Civil and Environmental Engineering and Architectural Design, and in 2015 with a Master's in Structural Engineering and Geomechanics. He was project manager of Stanford's first-ever entry to the U.S. DOE's 2013 Solar Decathlon and has been featured as an up-and-coming designer in the Los Angeles Times, in Home Energy magazine's "30 under 30", at TEDxStanford, and at Stanford+Connects NY and Seattle. He is Executive Director of City Systems ([city.systems](http://city.systems)) and a Lecturer in Stanford's Future Bay Initiative ([bay.stanford.edu](http://bay.stanford.edu)).

#### ACADEMIC APPOINTMENTS

- Lecturer, Geophysics

### Teaching

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#### COURSES

##### 2021-22

- Shaping the Future of the Bay Area: AMSTUD 118X, CEE 118X (Aut)
- Shaping the Future of the Bay Area: CEE 118Y (Win)
- Shaping the Future of the Bay Area: CEE 218X (Aut)
- Shaping the Future of the Bay Area: CEE 218Y (Win)
- Shaping the Future of the Bay Area: CEE 218Z (Spr)
- Shaping the Future of the Bay Area: ESS 118X (Aut)
- Shaping the Future of the Bay Area: ESS 118Y (Win)
- Shaping the Future of the Bay Area: ESS 218X (Aut)
- Shaping the Future of the Bay Area: ESS 218Y (Win)
- Shaping the Future of the Bay Area: GEOLSCI 118X, GEOLSCI 218X, GEOPHYS 118X (Aut)
- Shaping the Future of the Bay Area: GEOPHYS 118Y (Win)
- Shaping the Future of the Bay Area: GEOPHYS 118Z (Spr)
- Shaping the Future of the Bay Area: GEOPHYS 218X (Aut)
- Shaping the Future of the Bay Area: GEOPHYS 218Y (Win)
- Shaping the Future of the Bay Area: GEOPHYS 218Z (Spr)
- Shaping the Future of the Bay Area: POLISCI 218X, PUBLPOL 118X, PUBLPOL 218X (Aut)

**2020-21**

- Shaping the Future of the Bay Area: CEE 118X (Aut)
- Shaping the Future of the Bay Area: CEE 118Y (Win)
- Shaping the Future of the Bay Area: CEE 118Z (Spr)
- Shaping the Future of the Bay Area: CEE 218X (Aut)
- Shaping the Future of the Bay Area: CEE 218Y (Win)
- Shaping the Future of the Bay Area: CEE 218Z (Spr)
- Shaping the Future of the Bay Area: ESS 118X (Aut)
- Shaping the Future of the Bay Area: ESS 118Y (Win)
- Shaping the Future of the Bay Area: ESS 218X (Aut)
- Shaping the Future of the Bay Area: ESS 218Y (Win)
- Shaping the Future of the Bay Area: GEOLSCI 118X, GEOLSCI 218X, GEOPHYS 118X (Aut)
- Shaping the Future of the Bay Area: GEOPHYS 118Y (Win)
- Shaping the Future of the Bay Area: GEOPHYS 118Z (Spr)
- Shaping the Future of the Bay Area: GEOPHYS 218X (Aut)
- Shaping the Future of the Bay Area: GEOPHYS 218Y (Win)
- Shaping the Future of the Bay Area: GEOPHYS 218Z (Spr)
- Shaping the Future of the Bay Area: PUBLPOL 118X (Aut)
- Shaping the Future of the Bay Area: PUBLPOL 118Y (Win)
- Shaping the Future of the Bay Area: PUBLPOL 218X (Aut)
- Shaping the Future of the Bay Area: PUBLPOL 218Y (Win)

**2019-20**

- Shaping the Future of the Bay Area: CEE 118X (Aut)
- Shaping the Future of the Bay Area: CEE 118Y (Win)
- Shaping the Future of the Bay Area: CEE 118Z (Spr)
- Shaping the Future of the Bay Area: CEE 218X (Aut)
- Shaping the Future of the Bay Area: CEE 218Y (Win)
- Shaping the Future of the Bay Area: CEE 218Z (Spr)
- Shaping the Future of the Bay Area: ESS 118X, ESS 218X, GEOLSCI 118X, GEOLSCI 218X, GEOPHYS 118X (Aut)
- Shaping the Future of the Bay Area: GEOPHYS 118Y (Win)
- Shaping the Future of the Bay Area: GEOPHYS 118Z (Spr)
- Shaping the Future of the Bay Area: GEOPHYS 218X (Aut)
- Shaping the Future of the Bay Area: GEOPHYS 218Y (Win)
- Shaping the Future of the Bay Area: GEOPHYS 218Z (Spr)
- Shaping the Future of the Bay Area: POLISCI 224X, PUBLPOL 118X (Aut)
- Urban Development and Governance: CEE 136, CEE 236, PUBLPOL 130, PUBLPOL 230, URBANST 130 (Win)

**2018-19**

- Sustainable Urban Systems Fundamentals: CEE 124X, CEE 224X (Aut)

- Sustainable Urban Systems Fundamentals: ESS 118X, ESS 218X, GEOLSCI 118X, GEOLSCI 218X, GEOPHYS 118X, GEOPHYS 218X, POLISCI 224X, PUBLPOL 118X (Aut)
- Sustainable Urban Systems Project: CEE 124Y (Win)
- Sustainable Urban Systems Project: CEE 124Z (Spr)
- Sustainable Urban Systems Project: CEE 224Y (Win)
- Sustainable Urban Systems Project: CEE 224Z (Spr)
- Sustainable Urban Systems Project: GEOPHYS 118Y (Win)
- Sustainable Urban Systems Project: GEOPHYS 118Z (Spr)
- Sustainable Urban Systems Project: GEOPHYS 218Y (Win)
- Sustainable Urban Systems Project: GEOPHYS 218Z (Spr)
- Sustainable Urban Systems Seminar: CEE 124S, CEE 224S (Aut, Win, Spr)

## Publications

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### PUBLICATIONS

- **A language-matching model to improve equity and efficiency of COVID-19 contact tracing.** *Proceedings of the National Academy of Sciences of the United States of America*  
Lu, L., Anderson, B., Ha, R., D'Agostino, A., Rudman, S. L., Ouyang, D., Ho, D. E.  
2021; 118 (43)
- **Rising Seas, Rising Inequity? Communities at Risk in the San Francisco Bay Area and Implications for Adaptation Policy** *Earth's Future*  
Bick, I., Santiago Tate, A. F., Serafin, K. A., Miltenberger, A., Ayansi, I., Evans, M., Ortolano, L., Ouyang, D., Suckale, J.  
2021; 9 (7)
- **When floods hit the road: Resilience to flood-related traffic disruption in the San Francisco Bay Area and beyond.** *Science advances*  
Kasmalkar, I. G., Serafin, K. A., Miao, Y., Bick, I. A., Ortolano, L., Ouyang, D., Suckale, J.  
2020; 6 (32): eaba2423