



## Hyongsok Tom Soh

Professor of Radiology (Early Detection), of Electrical Engineering, of Bioengineering and, by courtesy, of Chemical Engineering

### CONTACT INFORMATION

- **Administrative Contact**

Ms. Elizabeth Bagley - Admin Assistant

**Email** ebagley@stanford.edu

### Bio

---

#### BIO

Dr. Soh received his B.S. with a double major in Mechanical Engineering and Materials Science with Distinction from Cornell University and his Ph.D. in Electrical Engineering from Stanford University. From 1999 to 2003, Dr. Soh served as the technical manager of MEMS Device Research Group at Bell Laboratories and Agere Systems. He was a faculty member at UCSB before joining Stanford in 2015. His current research interests are in analytical biotechnology, especially in high-throughput screening, directed evolution, and integrated biosensors.

#### ACADEMIC APPOINTMENTS

- Professor, Radiology
- Professor, Electrical Engineering
- Professor, Bioengineering
- Professor (By courtesy), Chemical Engineering
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

#### HONORS AND AWARDS

- Fellow, National Academy of Inventors (NAI) (2017)
- Investigator, Chan-Zuckerberg Biohub (2017)
- Fellow, American Institute for Medical and Biological Engineering (AIMBE) (2014)
- Humboldt Fellowship, Alexander von Humboldt Foundation (2012)
- Edward Nagy Award, NIH (2011)
- Guggenheim Fellowship, John Simon Guggenheim Foundation (2010)

- Directors Transformative Research Award (TR01), NIH (2009)
- The Innovator Award, Society for Laboratory Automation and Screening (2009)
- Beckman Young Investigator Award, Arnold and Mabel Beckman Foundation (2005)
- ONR Young Investigator Award, Office of Naval Research (2004)
- World's Top 100 Young Innovator Award (TR100), MIT Review (2002)

## PROGRAM AFFILIATIONS

- Stanford SystemX Alliance

## PROFESSIONAL EDUCATION

- Ph.D., Stanford University , Electrical Engineering (1999)
- M.S., Stanford University , Electrical Engineering (1995)
- B.S., Cornell University , Mechanical Engineering and Materials Science and Engineering (Double Major) (1992)

## LINKS

- H.T. Soh Research Lab: <https://sohlab.stanford.edu>

## Teaching

---

### COURSES

#### 2023-24

- Analytical Methods in Biotechnology I: EE 235A (Win)

#### 2022-23

- Analytical Methods in Biotechnology I: EE 235A (Win)

#### 2021-22

- Analytical Methods in Biotechnology: EE 235A (Win)
- Analytical Methods in Biotechnology II: BIOS 212B, EE 235B, RAD 236B (Spr)

#### 2020-21

- Analytical Methods in Biotechnology: BIOS 212, EE 235, RAD 236 (Spr)

## STANFORD ADVISEES

### Doctoral Dissertation Reader (AC)

Nahal Bagheri, Louis Blankemeier, Kai Chang, Shivam Verma, Nicholas Vitale, Alex White

### Postdoctoral Faculty Sponsor

Alyssa Cartwright, Zhiyuan Chen, Meysam Chorsi, Qitao Hu, Anil Incel, Sharon Newman, Yujia Sun, Zhining Sun, Quang Tuan Trinh, Helen Wu, Zijian Yang

### Doctoral Dissertation Advisor (AC)

Lexie Adams, Yihang Chen, Hajime Fujita, Deepak Gopalan, Linus Hein, Grace Maddocks, Jason Saunders, Benj Wollant, Steven Yee

### Master's Program Advisor

Frank DeGuire, Akshit Goel, Joshua Kim, Pamela Saidoni, Masa Someha, Lycia Tran, Cecilia Xie, Jessica Yang

### Doctoral (Program)

Leen Abdul Razzak, Nahal Bagheri, Oguz Tolga Celik, Kai Chang, Sergio Cordero, Lorenzo Magni, Anna Miller, Cindy Nguyen, Michael Silvernagel, Kamila Thompson, Tomasz Zaluska, Libby Zhang

**Postdoctoral Research Mentor**

Jean Kwak