



Hyongsok Tom Soh

W. M. Keck Foundation Professor of Electrical Engineering, Professor of Radiology (Diagnostic Sciences Laboratory) 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

2024-25

- Molecular and Cellular Engineering Lab: BIOE 301A, EE 235 (Win)

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)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Nahal Bagheri, Kai Chang, Madeline Hays, AJ Phillips, Nicholas Vitale, Eric Wu, Mahmut Yurt, Louise Zhuang, Samantha van Rijs

Postdoctoral Faculty Sponsor

Abhinaya Anandamurugan, Meysam Chorsi, Yahao Dai, Qitao Hu, Anil Incel, Edward Pimentel, Yujia Sun, Helen Wu, Zijian Yang

Doctoral Dissertation Advisor (AC)

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

Master's Program Advisor

Yousef Helal, Kyle Hu, Joshua Kim, Coco Layton, Tony Liu, Riya Varma, Cecilia Xie, Jessica Yang

Doctoral (Program)

Leen Abdul Razzak, Nahal Bagheri, Oguz Tolga Celik, Kai Chang, Sergio Cordero, Roman Dimov, Sayra Gorgani, Lorenzo Magni, Kyle McLelland, Anna Miller, Kamila Thompson, Max Yates, Tomasz Zaluska, Libby Zhang

Postdoctoral Research Mentor

Jean Kwak