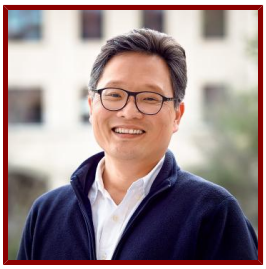
Stanford



Hyongsok Tom Soh

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

CONTACT INFORMATION

- **Administrative Contact**

  James Paguyo - Faculty Administrator

  Email jpaguyo@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
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- 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)

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

2026-27

- Molecular and Cellular Engineering Lab: BIOE 301A, EE 235 (Win)
- Science of Sensing: Exploring Biosensors and Devices: BIOS 434 (Spr)

2025-26

- Molecular and Cellular Engineering Lab: BIOE 301A, EE 235 (Win)
- Science of Sensing: Exploring Biosensors and Devices: BIOS 434 (Spr)

2024-25

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

2023-24

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

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Madeline Hays, AJ Phillips, Samantha van Rijs

Postdoctoral Faculty Sponsor

Yahao Dai, Jean Kwak, Edward Pimentel, Elena Turkalj, Helen Wu, Zijian Yang

Doctoral Dissertation Advisor (AC)

Lexie Adams, Hajime Fujita, Jenny Ji, Emma Kranich, Grace Maddocks, Jason Saunders, Max Yates, Steven Yee

Master's Program Advisor

Edison Altamirano, Joshua Kim, Edric Khai Jieh Ong

Doctoral (Program)

Leen Abdul Razzak, Mameena Arromdee, Nahal Bagheri, Karl Chen, Sergio Cordero, Roman Dimov, Sayra Gorgani, Lorenzo Magni, Jocasta Manasseh-Lewis, Anna Miller, Robin Sandell, Kamila Thompson, Shengqi Wu, Max Yates, Tomasz Zaluska