



Srabanti Chowdhury

Associate Professor of Electrical Engineering

CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Srabanti Chowdhury is an Associate Professor of Electrical Engineering (EE) at Stanford. Her research focuses on wideband gap (WBG) materials and device engineering for energy efficient and compact system architecture for power electronics, and RF applications. Besides Gallium Nitride, her group is exploring Diamond for various electronic applications. She received her B.Tech in India in Radiophysics and Electronics (Univ. of Calcutta) and her M.S and PhD in Electrical Engineering from University of California, Santa Barbara. She received the DARPA Young Faculty Award, NSF CAREER and AFOSR Young Investigator Program (YIP) in 2015. In 2016 she received the Young Scientist award at the International Symposium on Compound Semiconductors (ISCS). Among her various synergistic activities, she serves as the member of two committees under IEEE Electron Device Society (Compound Semiconductor Devices & Circuits Committee Members and Power Devices and ICs Committee). She has served the IEEE International Electron Devices Meeting (IEDM) technical sub committee on Power Devices & Compound Semiconductor and High Speed Devices (PC) sub-committee in 2016 and 2017. She was the PC subcommittee chair for IEDM-2018, and continues to serve the IEDM executive committee for 2019. She is a senior member of IEEE.

ACADEMIC APPOINTMENTS

- Associate Professor, Electrical Engineering

HONORS AND AWARDS

- William George and Ida Mary Hoover Faculty Fellow, Stanford University (2019)
- Advisor of student (Dong Ji) receiving Anil Kr. Jain award for best dissertation, Electrical and Computer Engineering, UC Davis (2018)
- IEEE Senior Member, Institute of Electrical and Electronics Engineers (IEEE) (2017)
- Advisor of student (Dong Ji) receiving Outstanding Student Abroad Award, Chinese Government (2016)
- Young Scientist Award, International Symposium on Compound Semiconductors (ISCS) (2016)
- Fulton Faculty Development Chair for outstanding research, Arizona State University (2015)
- NSF CAREER Award, National Foundation of Science (2015)
- Young Faculty Award (YFA), Defense Advanced Research Projects Agency (2015)
- Young Investigator Program Award, Air Force Office of Research (2015)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Executive Committee Member, IEEE International Electron Devices Meeting (IEDM) (2018 - present)
- Program Co-Chair, Topical Workshop on Heterostructure Microelectronics (TWHM) (2018 - present)
- Program Committee Member, ISPlasma/IC-PLANTS (2018 - present)
- Subcommittee vice chair : High power electron devices, Compound Semiconductor Week 2019 (2018 - present)
- Subcommittee Chair for Power Devices / Compound Semiconductor and High Speed Devices Committee, IEEE International Electron Devices Meeting (IEDM) (2017 - 2018)
- Subcommittee Member for Power Devices / Compound Semiconductor and High Speed Devices Committee, IEEE International Electron Devices Meeting (IEDM) (2015 - 2017)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Wide bandgap materials & devices for RF, Power and energy efficient electronics

Teaching

COURSES

2018-19

- Special Topics on Wide Bandgap Materials and Devices: EE 317 (Spr)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Jaeyi Chun, Dong Ji, Rohith Soman