



Jasmine Michelle Cox

Ph.D. Student in Electrical Engineering, admitted Autumn 2020

Bio

BIO

Jasmine Cox is a PhD candidate in Electrical Engineering. She received her B.S. in Electrical Engineering with a minor in Applied Mathematics from Boise State University in 2020. During her undergraduate academic career, Jasmine was a Ronald E. McNair Scholar and a member of the Advanced Nanomaterials and Manufacturing Laboratory focusing on additive manufacturing of flexible hybrid electronics. Her current research as a member of Prof. Debbie G. Senesky's group, EXtreme Environment Microsystems Lab (XLab), explores the synthesis, fabrication, and characterization of devices and materials in extreme environments that can be found in space.

HONORS AND AWARDS

- Stanford Interdisciplinary Graduate Fellow (SIGF), Stanford Vice Provost for Graduate Education (Autumn 2023 - Present)

EDUCATION AND CERTIFICATIONS

- MS, Stanford University , Electrical Engineering (2022)
- BS, Boise State University , Electrical Engineering, Minor in Applied Mathematics (2020)
- AA, Idaho State University , Arts and Letters, Early College Program (2016)

Research & Scholarship

LAB AFFILIATIONS

- Debbie Senesky, EXtreme Environment Microsystems Laboratory (XLab) (9/30/2020)

Publications

PUBLICATIONS

- **On-Orbit Processing and Hardware Performance of Microgravity Hydrothermal Synthesis for Graphene Aerogel** *JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING-TRANSACTIONS OF THE ASME*
Li, Z., Ozbakir, Y., Frick, J. J., Ormsby, R., Scherzer, C., Liu, C., Cox, J. M., Carraro, C., Maboudian, R., Senesky, D. G.
2024; 146 (12)
- **Thermal conductivity of macroporous graphene aerogel measured using high resolution comparative infrared thermal microscopy** *JOURNAL OF POROUS MATERIALS*
Cox, J. M., Frick, J. J., Liu, C., Li, Z., Ozbakir, Y., Carraro, C., Maboudian, R., Senesky, D. G.
2024
- **Autoclave Design for Microgravity Hydrothermal Synthesis** *MICROGRAVITY SCIENCE AND TECHNOLOGY*
Frick, J. J., Ormsby, R., Li, Z., Ozbakir, Y., Liu, C., Cox, J. M., Carraro, C., Maboudian, R., Senesky, D. G.
2024; 36 (3)

- **Fully inkjet-printed multilayered graphene-based flexible electrodes for repeatable electrochemical response** *RSC ADVANCES*
Pandhi, T., Cornwell, C., Fujimoto, K., Barnes, P., Cox, J., Xiong, H., Davis, P. H., Subbaraman, H., Koehne, J. E., Estrada, D.
2020; 10 (63): 38205-38219