

Stanford



Cassandra Huff

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

Bio

BIO

Cassandra Huff is a PhD Candidate in Electrical Engineering working on developing cost-effective sensors for measuring biogenic, greenhouse gas emissions (GHGs). She is interested in the overlap of technology and environmental science, science and technology policy and ethics, and prototyping. Her PhD work is specifically focused on building a cost-effective, scalable, optical sensor to measure methane (CH₄) emissions from wetland and rice paddies.

EDUCATION AND CERTIFICATIONS

- M.S., Stanford University , Electrical Engineering (2023)
- B.S., University of Texas at Austin , Electrical Engineering (2020)

Publications

PUBLICATIONS

- **Imaging the electron charge density in monolayer MoS₂ at the Ångstrom scale.** *Nature communications*
Martis, J., Susarla, S., Rayabharam, A., Su, C., Paule, T., Pelz, P., Huff, C., Xu, X., Li, H. K., Jaikissoon, M., Chen, V., Pop, E., Saraswat, et al
2023; 14 (1): 4363
- **A semi-continuous process for co-production of CO₂-free hydrogen and carbon nanotubes via methane pyrolysis** *CELL REPORTS PHYSICAL SCIENCE*
Sun, E., Zhai, S., Kim, D., Gigantino, M., Haribal, V., Dewey, O. S., Williams, S. M., Wan, G., Nelson, A., Marin-Quiros, S., Martis, J., Zhou, C., Oh, et al
2023; 4 (4)