NOELLE DAVIS

✉ noelle@eecs.berkeley.edu   🖥 noelledavis.github.io/   ⚹ github.com/noelledavis

Education

University of California, Berkeley   Expected May 2025
Ph.D. Electrical Engineering and Computer Science, advised by Dr. Ali Javey

California Institute of Technology   June 2020
B.S. Electrical Engineering, GPA: 3.8 / 4

Experience

Berkeley Sensors and Actuators Center, graduate researcher with Dr. Ali Javey   August 2020 – Present
Caltech Nanofab Lab, undergraduate researcher with Dr. Axel Scherer   March 2017 – June 2020
NASA Jet Propulsion Laboratory, electrical systems engineering summer intern   June 2019 – August 2019
Velodyne LiDAR, electrical engineering summer intern   June 2018 – August 2018
University of Texas at Arlington Dasgupta Lab, undergraduate researcher   June 2017 – August 2017

Awards and Fellowships

2021   National Science Foundation Graduate Research Fellowship (NSF GRFP)
2021   National Defense Science and Engineering Graduate Fellowship (NDSEG)
2020   Caltech Athletics Director's Award
2020   Caltech Deans' Office Robert L. Noland Leadership Award
2019   Caltech Deans' Office Donald S. Clark Service Award
2019   Southern California Intercollegiate Athletics Conference Women's Soccer Award of Distinction

Publications

* indicates equal contribution

Resettable Microfluidics for Broad-Range and Prolonged Sweat Rate Sensing. Mallika Bariya*, **Noelle Davis***, Liam Gillan, Elina Jansson, Annukka Kokkonen, Colm McCaffrey, Jussi Hiltunen, and Ali Javey. ACS Sensors 7 (4): 1156–64. 2022.

A Wearable Patch for Continuous Analysis of Thermoregulatory Sweat at Rest. Hnin Yin Yin Nyein, Mallika Bariya, Brandon Tran, Christine Heera Ahn, Brenden Janatpour Brown, Wenbo Ji, **Noelle Davis**, and Ali Javey. Nature Communications 12 (1): 1823. 2021.

Teaching

Undergraduate Teaching Assistant
Caltech EE 10ab, Introduction to Embedded Systems   winter 2019 – spring 2020
Caltech EE 13, Electrical Prototyping   fall 2019
Caltech EE/ME 7, Intro to Mechatronics   fall 2018

Advising

Undergraduate Researchers
Ashwin Aggarwal (now a master's student at UC Berkeley)   fall 2021 – present
Luis Fernando Ayala Cardona (currently at UC Berkeley)   spring 2021 – present