

# NOELLE DAVIS

✉ [noelle@eecs.berkeley.edu](mailto:noelle@eecs.berkeley.edu)  [noelledavis.github.io/](https://noelledavis.github.io/)  [github.com/noelledavis](https://github.com/noelledavis)

## Education

---

<b>University of California, Berkeley</b> Ph.D. Electrical Engineering and Computer Science, advised by Dr. Ali Javey	Expected May 2025
<b>California Institute of Technology</b> B.S. Electrical Engineering, GPA: 3.8 / 4	June 2020

## Experience

---

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

## Awards and Fellowships

---

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

## 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