

# Sam Schreiber

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415.391.5100

## **ENERGY AND ENVIRONMENTAL ECONOMICS, INC.** *Consultant*

San Francisco, CA

Mr. Schreiber joined E3 and the Resource Planning group in 2022 from the McGehee Group at CU Boulder, where he worked to understand and improve the efficiencies of perovskite-tandem solar cells. Sam previously worked as an analyst at ForeFront Power, a solar project developer specializing in mid-scale (100kW - 10MW) installations. He completed his B.S. in Engineering Physics (2017) and M.S. in Civil Engineering (2018) at Stanford University, with respective focuses in aerospace engineering and energy systems engineering.

## **UNIVERSITY OF COLORADO BOULDER, MCGEHEE GROUP** *Graduate Research Assistant*

Boulder, CO  
2020 - 2022

- Fabrication and characterization of efficient, reproducible, and stable perovskite solar cells
- Implemented enhanced pneumatic and electronic process controls and standardized fabrication procedures to improve device reproducibility and baseline efficiencies
- Optoelectronic and thin-film characterization to understand limitations to device performance
- Collaboration with NREL staff scientists on experimental design and device characterization

## **FOREFRONT POWER** *Senior Analyst, Sales*

San Francisco, CA  
2018 – 2020

- Developed economic, financial, and energy system models to determine the viability of solar PV and energy storage systems for commercial behind-the-meter and community solar applications
- Subject-matter expert for state policy, legislation, rates, and incentive programs
- Led sales, marketing, development, and engineering teams to respond to RFP opportunities
- Streamlined analysis methodology to improve throughput of entire analyst team
- Analyzed and presented financial metrics internally and savings analyses to customers

## **TSINGHUA SOLAR SYSTEMS** *International Business Development Intern*

Beijing, CHINA  
2016

- Prepared prospectus for potential joint-venture partners on residential solar-thermal systems in the U.S. and India

## Education

Stanford University  
*M.S., Civil Engineering*

Stanford, CA  
2018

Stanford University  
*B.S., Engineering Physics*

Stanford, CA  
2017

## Publications

Strand, E. J., et. al., "Printed Organic Electrochemical Transistors for Detecting Nutrients in Whole Plant Sap." *Adv. Electron. Mater.* 2021, 2100853. <https://doi.org/10.1002/aelm.202100853>