

2020 REU Students



Margherita Firenze

She is currently pursuing her B.S degree in Electrical Engineering with a minor in Economics from Columbia University. Her current research interests include energy economics, and renewable energy solutions for urban and rural communities.



Kalana de Silva

I am pursuing a B.S in Electrical Engineering Seattle University and I am passionate about smart grids, power systems and renewable energy specifically solar and ocean waves.

My favorite quote is “If you can't fly then run, if you can't run then walk, if you can't walk then crawl, but whatever you do you have to keep moving forward.” — Martin Luther King Jr.



Victoria Kaufman

Born and raised in Colorado, she is currently pursuing a Bachelor of Science degree in Electrical Engineering with minors in mathematics and leadership at the University of Denver. She is planning to specialize in the area of Power and Energy. Her current research interests include Renewable Energy, Data Analytics in Power Systems, Energy Economy, and Transportation Electrification.



Sally Robson

She is currently a junior at Smith College pursuing a B.S. in Engineering and a minor in Physics. Her current research interests include design and analysis of sustainable energy systems such as solar integrated microgrids.



Ahmed Ashmaig

I'm a sophomore at the University of Colorado Boulder studying Mechanical Engineering with a minor in Engineering Management. I was born in North Sudan and my native language is Arabic. I'm the Vice President of the National Society of Black Engineers at my school's chapter and I enjoy playing basketball. I'm passionate about both aviation and automotive, but my dream job is to become a flight test engineer. I'd like to pursue a career where I can contribute to the electrification of aircraft while leading teams. I'm looking forward to this research opportunity where I hope to enhance my communication and critical thinking skills.



Fletcher Ouren

He is currently pursuing a B.S. in Electrical Engineering at Colorado State University and graduating in spring 2022. His areas of research interest are smart grid optimization and microgrid implementation in rural communities.



Kara Maurer

Kara is currently a senior pursuing a B.S. in Electrical Engineering with minors in Mathematics and Computer Science at the University of Arkansas. Her current research interests include antennas, electromagnetics, and IC design. She will graduate spring of 2021 and plans to attend graduate school.



Adrian Gibson

Adrian is currently pursuing a dual degree in Electrical Engineering and Spanish at the University of Connecticut in Storrs, Connecticut. Adrian's research interests include renewable energy and interdisciplinary approaches to sustainability.



Hannah Hornung.

I am pursuing a degree in Mechanical Engineering with a Mathematics minor and an Electrical Engineering minor. I am part of the grand challenge scholars program pursuing research in making solar energy more economical. Within the REU I will be working on fault detection of photovoltaics using machine learning. Some of my interests include nanotechnology, machine learning, and renewable energy with a focus on solar energy.



Jackson Arnold

I am a student at Murray State University in Murray, Kentucky. I am currently completing a B.S. in Engineering Physics, and I am planning to pursue a PhD in Electrical Engineering after undergrad. My research interests include control systems and improvement upon existing green energy solutions.



Colin Pennock

He is currently pursuing a BES in Electrical Engineering at Union College in New York. He is from midcoast Maine and his research interests include power systems, digital communications, and grid resiliency in rural communities.