#### Where are previous Doctoral Fellows now?

The Steinbrenner has seen almost 60 graduate students go through our Doctoral Fellowship since it began. Learn about what some of them are up to now. > p. 1 Congrats to the 2022-23 Steinbrenner Doctoral Fellows! Now that the 2022-23 academic year has begun, it's time to announce this year's Steinbrenner Institute Doctoral Fellows. Read about the fellows and their research. > p. 2-3

#### Steinbrenner Impacts: Old News Worth Remembering

**Over the past 20 years,** the Steinbrenner has been a part of many notable initiatives worth looking back on. Read about previous projects the institute has helped champion. > **p. 4** 



Fall 2022 Issue 02

# Dear Steinbrenner Institute Doctoral Fellows, How Have You Been?

Since the Steinbrenner Institute Doctoral Fellowship began in 2007, the Steinbrenner has supported 57 graduate students through the program. As the fellowship enters its 16th year, the institute catches up with previous fellows to learn what they are up to now.

Fellows recount what they researched during their PhDs, publications and other scholarly outputs they produced, and how their studies have impacted their lives now.

Read about all 57 previous Steinbrenner Institute Doctoral Fellows on our website by scanning the QR code to the right or by visiting:

https://www.cmu.edu/ steinbrenner/doctoral-fellowships/ where-are-they-now/index.html





# Steinbrenner Institute Announces 2022-2023 Doctoral Fellows



Meet the Steinbrenner Institute's new cohort of doctoral fellows!

Hear directly from our four fellows and learn more about their research projects in their interview videos, which can be found online through the QR code to the left or at <a href="https://www.cmu.edu/steinbrenner/doctoral-fellowships/2022-2023-fellows.html">https://www.cmu.edu/steinbrenner/doctoral-fellowships/2022-2023-fellows.html</a>.



### Albin Wells (he/him) Presidential Fellow

Albin Wells is a PhD student in the Department of Civil and Environmental Engineering, advised by Dr. David Rounce. He is a proud Pittsburgh native and Taylor Allderdice alum, after which he received an ScB in Mechanical Engineering from Brown University in 2021.

His research investigates Alaskan glaciers' response to climate change. By developing robust approaches rooted in field measurements, he aims to improve large-scale systematic remote sensing and modeled data products. Understanding the drivers of glacier mass loss in Alaska will enhance projections of future mass loss; this has critical implications for water resources, natural hazards, and sea-level rise.

# Savannah Talledo (she/her)

Savannah Talledo is a second year graduate student in the Department of Chemistry from Spartanburg, South Carolina. Before attending Carnegie Mellon University, she graduated from Wofford College with a BS in Chemistry and a BA in Theater.

Savannah currently works under Dr. Stefan Bernhard where her research is focused on photocatalytic hydrogen production via sugar reforming by utilizing high throughput and automated techniques. She has also had the opportunity to accelerate her findings via collaborative efforts with the Millstone Group at the University of Pittsburgh and several Chemical Engineering groups at CMU.



## Christine Troller (she/her) Dunlap Fellow

Christine Troller is a PhD student in the Department of Chemical Engineering. She is advised by Dr. Coty Jen and is a member of CMU's Center for Atmospheric Particle Studies. In 2021, she received her bachelor's degree in Chemical Engineering with a minor in Chemistry from the University of Connecticut.

Her research relates to oceanic-atmospheric interactions with a warming climate. Currently, she is focusing on identifying marine algal emissions and their participation in atmospheric nucleation processes. She also plans to explore how marine algal emissions will be altered with the changing climate. Her research goal is to provide better estimations of the relationships



between algal emissions, marine nucleation, and climate change, which will improve climate model predictions for oceanic cloud formation.



# Kushagra Varma (he/him)

Kushagra Varma is a PhD student in the Architecture-Engineering-Construction Management (AECM) Program. Kushagra is originally from Indore, India. He holds a BArch degree from Maulana Azad National Institute of Technology in Bhopal, India, and a MS in Construction Management from Stevens Institute of Technology in Hoboken, New Jersey. Before joining CMU, he worked as a lecturer in the Civil, Environmental, and Ocean Engineering Department at Stevens Institute of Technology, where he taught multiple graduate construction engineering and management courses. In spring 2021, he joined Dr. Erica Cochran Hameen's research group in the School of Architecture and was awarded the P.J. Dick Incorporated AECM Fellowship.

His research focuses on developing a 4D urban building performance data visualization and benchmarking tool to share benchmarking data and enable building stakeholders to make appropriate retrofits to improve the environmental performance of their buildings. His research involves analysis of urban buildings benchmarking data, developing algorithms to visualize the information on a web-based platform, creating and integrating an intelligent retrofit recommendation generator, and providing energy reduction and decarbonization pathways for the future.

# Steinbrenner Impacts

A series where we look at past work, initiatives, and news involving the institute.

#### Pittsburgh (not) to Paris Climate Multimedia Challenge

Originally published November 20, 2017



In 2017, the Steinbrenner Institute and Point Park University's Center for Media Innovation asked students in the Pittsburgh area to challenge former President Trump's declaration to withdraw the United States from the Paris Climate Accord and his statement that, "I was elected to represent the citizens of Pittsburgh, not Paris." Students answered the question, "What does this mean to you in a world where climate change is not an alternative fact?" in one-minute videos. The contest, "Pittsburgh (not) to Paris Climate Multimedia Challenge," drew in many talented and compelling submissions.

Andrew Conte, Director of the Center for Media Innovation at Point Park, said he was impressed with the wide range of entries, and the deep level of concern students showed for such an important issue. "We received entries involving poetry, dance, Legos and many powerful images connecting our region with Paris and the world over environmental issues," he said.

Point Park University student David Randolph, who studied Cinema Production, was selected as the winner of the contest. Randolph's video "brought the climate conversation to a local and personal level," said Kirsi Jansa, a documentary filmmaker and journalist. "It has a powerful, personal and emotional message that was delivered beautifully."

Watch David Randolph's winning submission, "One World," on the Steinbrenner website.

#### Dietrich College's Climate Change Grand Challenge Seminar

Originally published January 25, 2018

As part of the Dietrich College of Humanities and Social Sciences' Grand Challenge Interdisciplinary Freshman Seminars, first year students spent the Fall 2017 semester learning about climate change and then participated in a three-day mock climate change negotiation as negotiators from the United Nations (U.N.) Framework Convention on Climate Change (FCCC) process, more commonly known for arriving at the Paris Climate Agreement.

These students were part of the class, Climate Change. The course aims to help students understand what climate change is, how scientists know it's happening, why there's so much public debate over it, what solutions are available and how the policymakers go about them.



Hear from two students who had the opportunity to take the Climate Change Grand Challenge seminar on the Steinbrenner website.

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