## Krista Freeman

***CSU Valedictorian (2011)***
***CSU Distinguished Alumna (2016)***

**BS Physics Honors, Math Minor (Cleveland State University – 2011)**

**MS Physics, PhD Physics (Carnegie Mellon University – 2014/2017)**

**Currently: Postdoctoral Research Associate, University of Pittsburgh – Pittsburgh, PA**

***CSU SPS Chapter President (2009 – 2011)***

***CSU SPS Chapter Outreach Coordinator (2009 – 2012)***

***NSF's REU student at U Akron (2009)***

***NSF Graduate Research Fellow (2013 – 2017)***

### Why CSU Physics?

"It is very rare to have a department that is small enough to really care for each student, and also academically rigorous and rich with research and teaching opportunities."

### Current Research

"I am currently working "undercover" as a biologist at the University of Pittsburgh, where I study the functions, structures, and mechanisms of action of Mycobacteriophage proteins (those are the proteins of viruses that infect dangerous bacteria like those that cause tuberculosis)."

# Prasenjit Bose

**BS Physics Honors (Cleveland State University – 2012)**

**BS Math Honors (Cleveland State University – 2012)**

**PhD in Physics (John Hopkins University – 2018)**

**Currently: PTD Module and Integration Device Yield Engineer, Intel Corporation – Hillsboro, OR**

***CSU SPS Chapter Secretary (2010 – 2011);***

## Why CSU Physics?

"The reasons why I would recommend CSU Physics to new undergraduates because: 1) Strong rigorous major program, albeit being a small sized department; 2) Students receive individually tailored academic and research exposure; 3) Great scholarship opportunities; 4) A good stepping stone for getting into top graduate schools in the country…"

## Current Occupation

"I am part of Intel's Logic Technology Development Group (LTD), focusing on the lithography processes. My designation is TD Module Engineer. So inside TD, I am in the Lithography group."

# Achille Nicolletti

**BS Physics Honors (Cleveland State University – 2011)**

**BS EE Honors (Cleveland State University – 2011)**

**PhD in EE (Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland – 2017)**

**Currently: Senior Research Fellow, CERN – Geneva, Switzerland**

## Why CSU Physics?

"I would say that the CSU Physics department was very dynamic and challenged me in a way that strengthened my continued thirst for knowledge while preparing me for my journey as a scientist in the real world."

## Current Occupation

"I am working at the European Organization for Nuclear Research (know as CERN) as a senior research fellow. My research is on creating optimization algorithms to develop robust controllers for systems that possess uncertainties."

# Kristen Schuler

**BA Physics (Cleveland State University – 2016)**

**BS Math Education (Cleveland State University – 2016)**

**Currently: Science Teacher,**

**St. Joseph Academy – Cleveland, OH**

***SPS Vice President 2015-2016***

***NASA/Ohio Space Grant Consortium Scholarship, 2014-15, 2015-16***

***Internship at NASA Glenn Research Center, Office of Education, 2015***

## Why CSU Physics?

"When I first transferred to CSU, my plan was to obtain a BS in Math and a teaching license through the CSUteach program. After taking Modern Physics to fulfill the science requirements, I found myself gravitating towards physics much more than my original program of study. After the course was complete, I couldn't imagine ending my physics career."

## Current Occupation

"I am now teaching Physical Science and Physics at Saint Joseph Academy, an all-girl's Catholic school here in Cleveland."

# Phil Dee

**BS Physics Honors (Cleveland State University – 2013)**

**BE Civil Engineering (Cleveland State University – 2013)**

**Currently: PhD candidate in the theoretical condensed matter physics, The University of Tennessee, Knoxville– Knoxville, TN**

***CSU SPS Chapter President (2013 – 2014)***

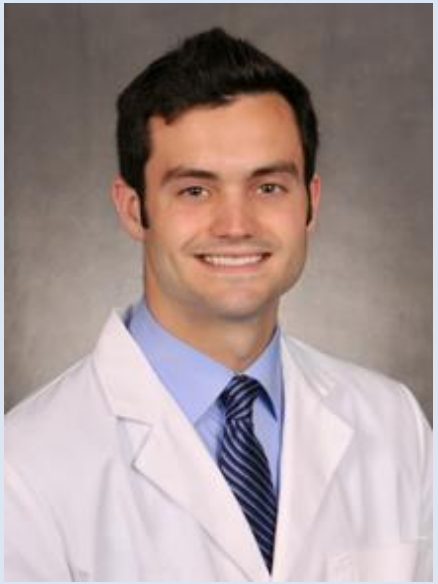
***D.O.E. SCGSR Fellow, Oak Ridge National Lab (2018-1019).***

## Why CSU Physics?

"The department has carefully fostered a well-rounded learning environment centered around giving undergraduates genuine opportunities to perform research, teach physics to other students, and hold positions in a nationally recognized chapter of the Society of Physics Students."

## Current Research

"In our group, we study theoretical models of many particle systems on a crystal lattice in order to better understand various types of emergent phenomena that experimentalists observe in real materials."



## Mike Hardin

**BS Physics Honors (Cleveland State University – 2012)**

**BS Math (Cleveland State University – 2012)**

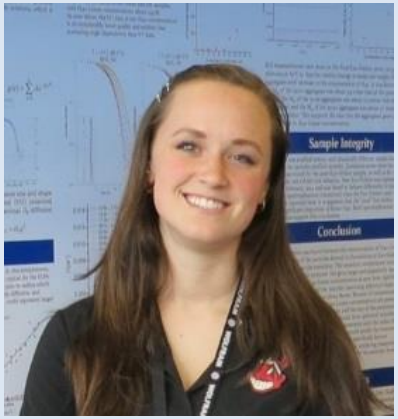
***SPS president 2011-2012***

**MS Medical Physics, University of Cincinnati, 2014**

**Medical Physics Resident, Thomas Jefferson University, Philadelphia, 2016**

**Currently: Medical Physicist, The US Oncology Network, Woodlands, TX**

**In his own words:** “I am happy to say that my education at CSU has helped me to further my career goals in more ways than one. The rigorous coursework offered in the department of physics (and the honors program) afforded me the opportunity to refine my study habits, presentation skills, and of course, enhance my knowledge of physics! Medical physics may be a clinically oriented field of work, but the concepts behind our work remain unchanged. CSU provided me with the necessary foundation to kick start my career. By continuing to offer the high level training that I experienced during my years in the program, CSU can be sure that they are preparing young minds for a brilliant career.”




# Hannah Shuman Dee

**BS Physics Honors (Cleveland State University – 2014)**

**Currently: Toxicologist, Integrity Laboratories – Knoxville, TN**

***CSU SPS Chapter VP (2013 – 2014)***

## Current Occupation

“I was given an unexpected opportunity to work at a clinicallaboratory startup. The laboratory performs a variety of clinical testing including basic blood tests that your primary care doctor might order, genotyping strains of bacteria so a physician can identify the proper antibiotic to treat an infection with, and quantitative toxicology testing.”

## Vincenzo LaSalvia

**BA Physics (Cleveland State University – 2009)**

**Currently: Process Engineer, National Renewable Energy Laboratory (NREL) – Golden, CO**

### Why CSU Physics?

"The department and faculty of CSU Physics creates an atmosphere of both education and experience that prepares students for meaningful and impactful careers -- CSU Physics does not simply graduate students, it motivates them to become leaders and innovators."

### Current Occupation

"My position includes the scientific study of monocrystalline silicon-based photovoltaic materials, processes, and devices for high-efficiency solar power conversion."

# Ivona Maric

BA Physics (Cleveland State University – 2005)
BS Math (Cleveland State University – 2005)
MS Math (Cleveland State University – 2008)

Currently: Full time Math Instructor,
North Central State College,
Stark State College,
Kent State University – Akron, OH

# Marie Blatnik

**BS Physics Honors (Cleveland State University – 2015)**

**BS EE Honors (Cleveland State University – 2015)**

**Currently: PhD candidate in Physics, California Institute of Technology (CALTECH) – Los Angeles, CA**

***CSU SPS Chapter Outreach Member (2012 – 2015)***

***SULI at Brookhaven National Lab, 2013***

***SULI at Los Alamos National Lab, 2014***

## Why CSU Physics?

"Because the physics department is big enough to give you all the tools, opportunities, and resources you need to become a physicist, but small enough to guide and nurture you on an individual level to be your best physicist self."

## Current Research

"Her primary work is on instrumentation and simulations for the neutron Electric Dipole Moment experiment (nEDM) to take place at the Spallation Neutron Source at Oak Ridge National Lab."

## John T. McKenna

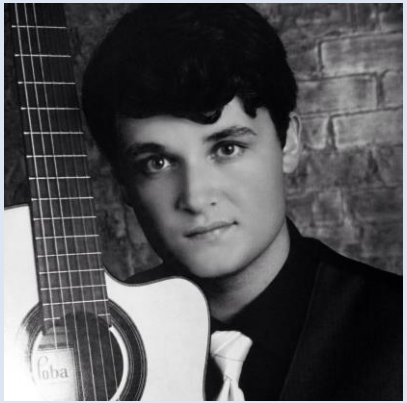
**BS Physics (Cleveland State University – 2005)**

**BS Math (Cleveland State University – 2005)**

**MS Medical Physics (Cleveland State University – 2008)**

**Currently: Medical Physicist, New York Presbyterian/ Weill Cornell Hospital, New York, NY**

**In his own words:** “Working in the (undergraduate research) lab increased my ability to formulate questions in a clear and concise manner. This is important because if you do not have a clear question, you will have little chance to find a clear answer in a lab setting”



# Anthony Dobrila

**BS Physics Honors (Cleveland State University – 2018)**

**Currently: Software Developer, RoviSys – Aurora, OH**

***CSU SPS Chapter Treasurer (2017 – 2018)***

***CSU SPS Chapter Webmaster (2016 – 2019)***

***NSF's REU student at CSU (2017)***

## Why CSU Physics?

"I chose CSU physics because of the amazingly talented staff and their incredible passion for teaching me and my peers how to be successful and driven intellectuals. CSU Physics taught me how to think on a level no other major or department could rival."

## Current Occupation

"As a software developer, I am constantly using the critical thinking skills I obtained while in the CSU's physics program. I primarily design, develop, and deliver complex software solutions to customers in the Oil & Gas industries by leveraging multi-platform technologies for data storage, data analytics, and predictive modelling. I would not have been able to do this without the lessons and skills I learned from CSU Physics department."

## Joseph Glaser

**BS Physics Honors (Cleveland State University – 2014)**

**BS Math (Cleveland State University – 2013)**

**PhD Physics (Drexel University – 2020)**

**Currently: Computational Physicist,**
**NanoGrav consortium, West Virginia University**

***CSU SPS Chapter Web Master (2010 – 2012)***

### Why CSU Physics?

"Studying at CSU's Department of Physics allowed me the opportunity to get directly involved in cutting-edge research, which enriched my curriculum as well as prepared me for my doctoral career."

### Current Research

"His primary research interests are in the kinematic evolution of exoplanetary systems while they are embedded within their birth stellar clusters. This is a very difficult, multi-scale problem that has not been explored in detail before due to the complexity and computational resources needed."

# Janna Mino

**BA Physics, (Cleveland State University, 2013)**

**BS Chemistry, (Cleveland State University, 2013)**

**BS Biology, (Cleveland State University, 2013)**

**MA Teaching Science (Kent State University)**

***SPS Secretary, 2013***

***SPS Vice-President 2014-2015***

**Currently: Science Teacher, BioMed Science Academy, Rootstown, OH**

**In her own words:** “Janna was initially double-majoring in Chemistry and Biology, but after taking Physics I & II she wanted to continue taking more physics courses and decided to minor in Physics. Many of her Chemistry and Biology courses overlapped, so her schedule was able to accommodate more physics electives than she was initially anticipating. By the time Janna was in her senior year, she was able to qualify for a BA in Physics, and was working both as a Research Assistant and Teaching Assistant in the Physics department, gaining invaluable hands-on experience. Only a few courses from a Physics BS, Janna had completed all the other courses for her other degrees and graduated with a "heavy" BA. ”

# Justin Flaherty

**BS Physics Honors (Cleveland State University – 2016)**

**BS Math (Cleveland State University – 2016)**

**MS Physics (Cleveland State University – 2018)**

**Currently: PhD student at the Department of Physics, Ohio State University – Columbus, OH**

***SPS Vice President and President 2014-2016***

**Why CSU Physics?** Physics was a fun class in high school, but I was indecisive about making a career out of it. I didn't figure it out until I attended an event hosted by SPS with some friends, the famous liquid nitrogen ice cream party. While my friends found the event fun, I found so much more in it. The department was giving out awards to recognize the achievements of many students, which showed me that the department was incredibly supportive. When I interacted with faculty/students at the event, I found that they were very welcoming and seemed to enjoy their work. It really helped solidify my desire to pursue a degree in physics, and the views I had of the department during that party have never changed. Many of the faculty/staff were actively involved in my life, doing everything in their power to help me succeed and putting me on the path to a PhD. I found CSU because of family, but I ended up finding a family in the physics dept.

**Current Occupation:** " … currently taking his core classes of Quantum Mechanics, Electricity & Magnetism, and Classical & Statistical Mechanics. He is also teaching recitation and lab sections of Calculus-based electricity and magnetism, Ohio State's equivalent of PHY 242."

## Ashraf Morgan

BS Physics (Cleveland State University – 2005)

MS Medical Physics, (Cleveland State University – 2007)

PhD Biomedical Engineering, (Cleveland State University – 2016)

Currently: Medical Physicist

Cleveland Clinic Foundation, Cleveland OH

# Kaitlin Vandemark

**BS Physics Honors (Cleveland State University – 2013)**

**BA Communication (Cleveland State University – 2013)**

**Currently: Key Account Manager for Power Generation Utilities, ABB, Inc – Auburn Hills, MI**

***CSU SPS Chapter VP (2010 – 2012);***

***CSU SPS Chapter President (2012 – 2013)***

***NSF sponsored research at University of Munich, 2012***

## Why CSU Physics?

"CSU Physics provides you with the opportunities to be your very best"

## Current Occupation

"I started as a co-op with ABB as a Proposal Engineer in the Industrial Automation Power Generation market. I was offered a full time position in Proposals after graduation. In 2018, I started my new role as a Key Account Manager, where I act as the conduit between the customer and the many ABB factories."

# Ryan McDonough

**BS Physics Honors (Cleveland State University – 2010)**
**BS in Chemistry Honors (Cleveland State University – 2010)**
**BA in Philosophy (Cleveland State University – 2010)**
**Currently: Programmer, DB Consulting Group, INC**
**at NASA Glenn Research Center, Cleveland 2013-**
**Spectrum Analyst, NASA Glenn Research Center, 2015-**

***CSU SPS Treasurer (2007-2009)***
***NSF's REU student at Louisiana State University (2008)***

## Current Research

"In his current position, Ryan uses his physics expertise in several areas including: the study of radiofrequency scattering from rain droplets, the study of the attenuation and interaction of radiowaves inside buildings, and interactions of low frequency radiowaves with the Earth's ionosphere. These tasks have helped to support the work to protect NASA's use of radiowave communications systems by establishing technical recommendations published by international organizations such as the International Telecommunications Union (ITU)."


# Nicholas Barron

**BS Physics Honors (Cleveland State University – 2018)**

**Minor Math (Cleveland State University – 2018)**

**Currently: PhD student in Meteorology and Atmospheric Science, Pennsylvania State University – College State, PA**

**Why CSU Physics?** At CSU Nick participated in atmospheric science research focusing on understanding the physics of shallow cumulus clouds utilizing a variety of high resolution atmospheric simulations. This experience inspired him to receive formal training in atmospheric science as a Ph.D. student at Penn State.

## Current Research

“His research now applies statistical concepts to further understanding of asymmetrical dynamics and structure in tropical cyclone.”

# Max Orseno

**BS Physics Honors (Cleveland State University – 2010)**

**MS Civil Engineering (CSU – 2012)**

**Currently: Structural Engineer, Sixmo Inc, Westlake OH**

***CSU SPS Chapter VP (2008 – 2009)***

**Why CSU Physics?** The small-scale department allows for in-depth and meaningful discussions and interactions between students and professors, especially once students realize that everything in life can be deconstructed down to fundamental physics. Also, the small class sizes quickly become an excellent learning environment for an engaged student.

**Current Occupation:** Max Orseno has continued to pursue his career in structural engineering. Max has designed steel structures and concrete foundations serving clients in markets ranging from heavy industrial to light commercial. Max's career has sent him to Alabama and Wyoming, over twelve cumulative months, acting as a field engineer and construction manager. Recently, Max become a professional civil engineer licensed in the State of Ohio.

# Brian Vyhnalek

**BS Physics Honors (Cleveland State University – 2009)**

**BS in Math (Cleveland State University – 2009)**

**MS Physics (Cleveland State University – 2014)**

**MS Electrical Engineering (Cleveland State University – 2014)**

**Currently: Researcher at NASA Glenn,**
**Advanced High Frequency Branch, Cleveland**

## Current Research

“A full time civil servant at the NASA Glenn Research Center, in the Advanced High Frequency Branch, Brian is working in two areas: 1) Research related to atmospheric turbulence modeling and characterization for adaptive optical and optical communication systems; 2) Applications of superconductors, ferroelectrics, and other exotic materials for the development of high-performance and novel devices for microwave, mm wave, THz and optical comm systems (amplifiers, oscillators, resonators, filters, phase shifters, photon detectors, etc ).”

# CSU PHYSICS – ALUMNI in Medical Physics Residency

## April Smith

**BS Physics, Saint Vincent College, Latrobe, PA**

**MS Physics, Medical Physics (Cleveland State University – 2017)**

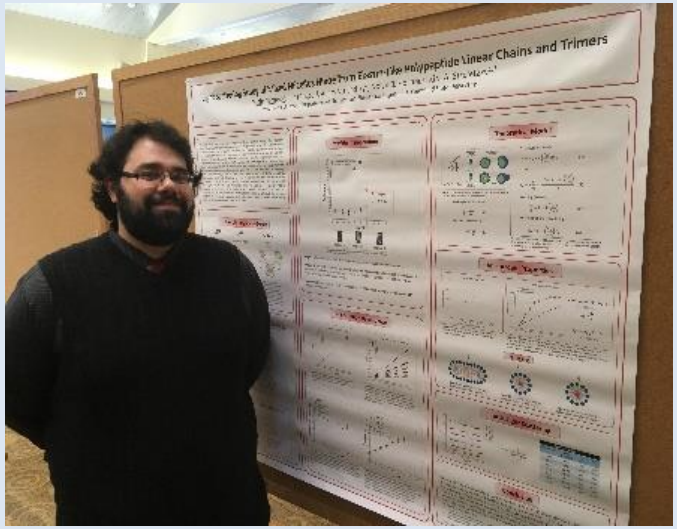
**Currently: Medical Physics Resident, University of Nebraska Medical Center – Omaha, NE**

## Christian Gunder

**BS Chemical Engineering (Cleveland State University – 2017)**

**Minor Physics (Cleveland State University – 2017)**

**Currently: Kubat Custom Healthcare – Omaha, NE**




# Dan Terrano

**BS Physics (Cleveland State University – 2018)**

**BS Chemistry (Cleveland State University – 2018)**

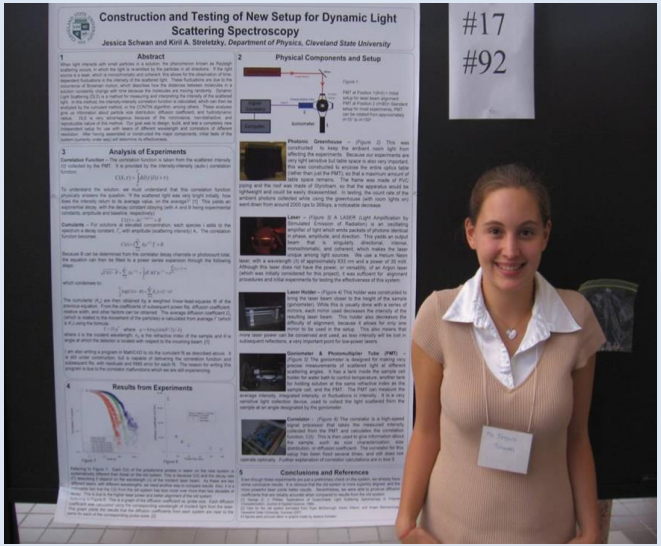
**Currently: Senior Chemist, Cosmax, Solon OH**

***CSU SPS Chapter Treasurer (2015 – 2017)***

***CSU SPS Chapter President (2017 – 2018)***

**Why CSU Physics?** Dan worked on multiple research projects as an undergraduate. He directly worked on studying and modelling the properties of elastin-like polypeptides and anisotropic gold nanorods and developing a heating stage and imaging techniques to be used for studying soft matter on a Scanning Electron Microscope. Dan presented his research at multiple national conferences and received a poster award in 2016 at the Quadrennial Physics Congress.

**Current Occupation:** Dan is working as a senior raw material chemist at Cosmax USA with his partner in crime, Ilona, continuing the beauty and the beard saga




# Jessica Schwan

BA Physics (Cleveland State University – 2008)

BS in Math Honors (Cleveland State University – 2008)

MS Math (Cleveland State University – 2010)

Currently: Mathematical Statistician,
US Census Bureau, Washington DC

**In her own words:**

““Having some experience doing (undergraduate) research (at CSU) helped me to realize that I love research. I really love discovering the best or most efficient or fastest method for gathering data. I feel that this experience will really help me with my chosen career, as it directly relates to gathering data.”


Why CSU Physics?

## Aubrey Lokey

*CSU Valedictorian (2019)*

**BA Physics (Cleveland State University – 2019)**

**BE Computer Engineering (Cleveland State University – 2019)**

**Currently: PhD student in Experimental Nuclear Physics**

**Michigan State University, East Lansing, MI**

***CSU SPS Chapter Secretary (2017 – 2018);***

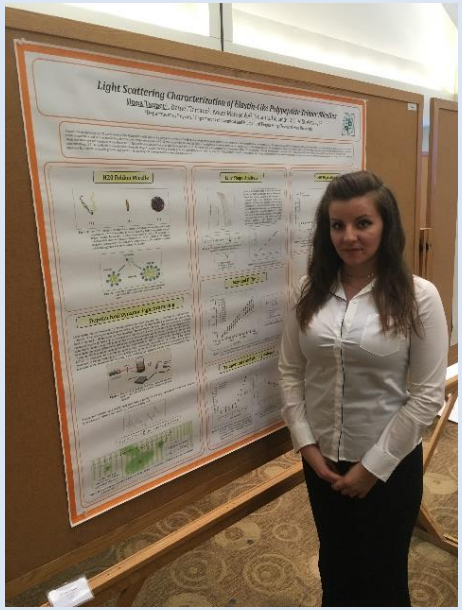
***CSU SPS Chapter Treasurer (2018 – 2019)***

***LERCIP Intern at NASA Glenn Research Center, 2016 & 2018***

***Recipient of the YWCA Dr. Jennie S. Hwang Award, 2018***

"Aubrey was a LERCIP Intern NASA GRC, working with projects in fluid physics and human health and habitation. She has presented at the American Society for Gravitational and Space Research meetings. She also was an undergraduate assistant with the Computing in Secondary Schools program, a professional development program for teachers implementing computer science curricula."

**Current Research:** "At MSU Aubrey is in Experimental Nuclear Physics program and is the only one of 20 incoming doctoral students to be the recipient of a Michigan State University Distinguished Fellowship."




## Ilona Tsuper

**BS Physics (Cleveland State University – 2018)**

**BS Chemistry (Cleveland State University – 2018)**

**Currently: Chemist, Cosmax, Solon OH**

***CSU SPS Chapter Rockefeller (2015 – 2017)***

***CSU SPS Chapter VP (2017 – 2018)***

**Why CSU Physics?** Ilona did undergraduate research presented it at regional/national conferences; she was the recipient of the Best Undergraduate Poster Award at the APS and Quadrennial Physics Conference, and won the Second Place GSoft Matter Award at the 2018 APS March Meeting of the APS

**Current Occupation:** Continuing the legacy, Ilona is working as the Senior Chemist of Bulk Material at Cosmax, down the hall from her partner in crime. She directly works with the R&I department (New Jersey), formulating and testing cosmetic brands manufactured in the US.

## Niksa Praljak

***COSHP Valedictorian (2020)***

**BS Physics Honors (Cleveland State University – 2020)**

**BS Math Honors (Cleveland State University – 2020)**

**Currently: PhD Student, Biophysical Sciences, University of Chicago, Chicago IL**

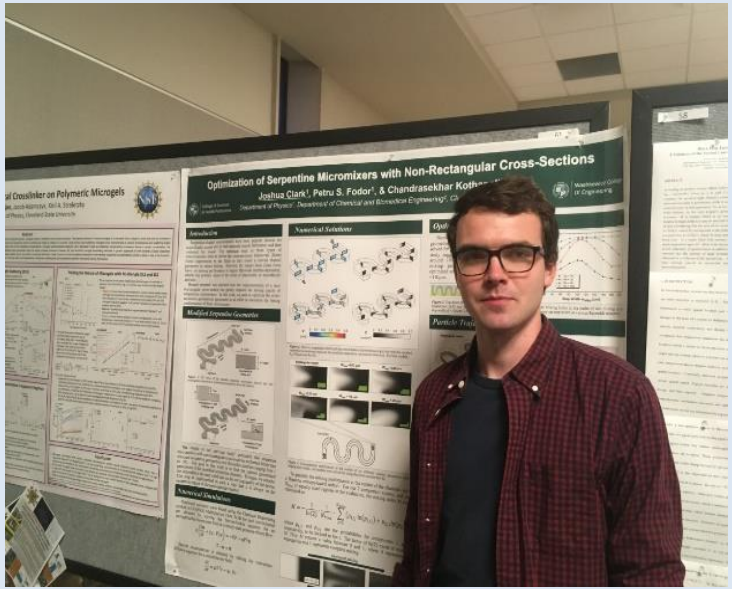
***CSU SPS Math Club Liaison (2018 – 2020)***

***NSF's REU student at CSU (2018)***

***NSF Graduate Research Fellow (2020 – 2023)***

### Current Research

"Niksa, a native of Bosnia, will continue his research in the physics of living systems. This area of study explores the most fundamental physical processes that living systems utilize to perform their functions in dynamic and diverse environments. He has also been inspired to educate the public in the physical sciences due to his work with students at Campus International School as part of an outreach program run by CSU's Society of Physics Students. "




# Joshua Clark

**BS Physics Honors (Cleveland State University – 2018)**

**Currently: Research and Development Scientist, GrafTech, Parma OH**

***NSF's REU student at CSU (2018)***

**A bit about him:** Josh did research at CSU as USRA student and as 2018 REU student. He published **3 peer-reviewed articles and a peer-reviewed abstract**. He currently works as an R&D Scientist at GrafTech International in Cleveland using Finite Element Analysis for a variety of physics related problems.

## Jacob Adamczyk

**BS Physics Honors (Cleveland State University – 2020)**

**BS Math (Cleveland State University – 2020)**

**Currently: MS Student, Physics Department,**
**University of Massachusetts – Boston, Boston MA**

***SPS Fabulous Physics Question Creator***

***NSF's REU student at CSU (2018)***

***Summer Research Associate at Néel Institute, France (2019)***

***2019 SPS Leadership Scholarship***

**A bit about him:** Jacob has enjoyed learning physics and engaging in undergraduate research experiences as a high school student taking part in college coursework. Throughout his time studying he have continued to witness the importance of one's personal connections and advantages of networking. Jacob did summer research at CSU as REU student in 2018 and Neel Institute (France) in 2019. He is currently in MS Physics program at University of Massachusetts – Boston, where he is working with two research groups: one in Quantum Computing and another one in Biophysics.

*CSU Valedictorian (2020)*

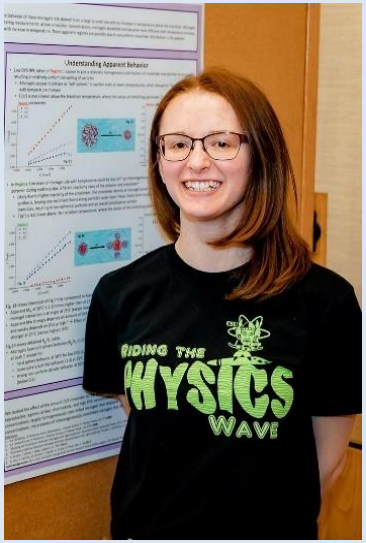
## Ellen Rea

**BA Physics (Cleveland State University – 2020)**
**BS Mechanical Engineering (CSU – 2020)**

**Currently: Aerospace Engineer,**
**GE Aviation Edison, Cincinnati, OH**

***NSF's REU student at CSU (2018)***

**Current Occupation:** Ellen started a job as an aerospace engineer in the GE Aviation Edison Program. This is a three-year rotational program focused on jet engine design and manufacturing. She eventually plans to continue her education by pursuing a master's degree.




## Samantha Tietjen

**BS Physics Honors (Cleveland State University – 2019)**

**Currently: MS Student, Physics Department,**
**Cleveland State University**

***SPS Outreach Coordinator 2017-2019***

***SPS President 2019-present***

***NSF's REU student at CSU (2019)***

***2019 SPS Leadership Scholarship***

**In her own words:** Originally applied to college as a Studio Arts major with the intention of completing a degree in Scientific Illustration, but she so thoroughly enjoyed her high school physics that she decided to do a last-minute degree switch and have enjoyed every resulting moment of the decision. At CSU, she has been involved with SPS as Outreach Coordinator and Chapter President. SPS has allowed her to take on leadership opportunities through physics in ways she previously never would have considered. SPS involvement helped to pave the way for her student research. She studies soft matter systems using Dynamic Light Scattering and Scanning Electron Microscopy. She published a peer-review abstract and working a manuscript.