

Andrea J. Welsh, PhD

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Education

- Georgia Institute of Technology**, Atlanta, GA Nov 2012-Jul 2019
Ph.D. Physics
Advisor: Dr. Flavio H. Fenton
- Georgia Institute of Technology**, Atlanta, GA August 2012-December 2013
M.S. Physics
- University of Texas-Austin**, Austin, TX August 2011-May 2012
Graduate coursework in math and physics
- Boston University**, Boston, MA August 2007-May 2011
B.A., Physics and Mathematics, minor in Latin
- Université de Genève**, Geneva, Switzerland January 2010-May 2010
Undergraduate coursework in physics

Research Experience

- Postdoctoral Fellow** August 2020-Present
Dr. Bard Ermentrout
University of Pittsburgh, Pittsburgh, PA
- Postdoctoral Fellow** Fall 2019-July 2020
Dr. Flavio H. Fenton
Georgia Institute of Technology, Atlanta, GA
- Graduate Research Assistant** Fall 2012- Summer 2019
Advisor: Dr. Flavio H. Fenton
Coming Together: Individuals at Different Scales Working for A Common Goal
Georgia Institute of Technology, Atlanta, GA
- Undergraduate Research Assistant** Spring 2010
Advisors: Dr. Robert Harrington, Dr. Lawrence Sulak
CERN, Meyrin Switzerland
- Undergraduate Research Assistant** Summer 2009
Advisors: Dr. Michael Rissjsenbeek, Dr. Jack Stefon
SUNY Stony Brook, Stony Book, NY
- Undergraduate Research Assistant** May 2008 - May2009
Advisor: Dr. Bennett Goldberg
Boston University, Boston, MA

Publications

Peer-Review Articles

- (5) [Andrea J. Welsh](#) and Flavio H. Fenton. *Chimeras from local coupling: FitzHugh-Nagumo with Extension*. (Manuscript in preparation).
- (4) [Andrea J. Welsh](#), Edwin F. Greco, and Flavio H Fenton *Crowds as an excitable medium for spiral wave dynamics*. (Manuscript in preparation).
- (3) [Andrea J. Welsh](#), Cristian Delgado, Casey Lee-Trimble, Abouzar Kaboudian, and Flavio H. Fenton, *Visualizing Waves, Chaos and Synchronization with a Microcontroller*. Chaos. (December 2019) DOI: <https://doi.org/10.1063/1.5094351>
- (2) [Andrea J. Welsh](#). *Coming together: Individuals at Different Scales Working for A Common Goal*. Doctoral Dissertation, Georgia Institute of Technology. (July 2019).
- (1) [Andrea J. Welsh](#), Edwin F. Greco, and Flavio H. Fenton. *Dynamics of a human spiral wave*. Physics Today. (February 2017) DOI: <http://dx.doi.org/10.1063/PT.3.3474>.

Commentary Articles

- (6) [Andrea J. Welsh](#), My Queer Imposter Syndrome. *Voices of Academic Blog* (To be published November 2020).
- (5) [Andrea J. Welsh](#), [Supportive Groups Are Vital for Mental Health](#). *Physics Magazine*. (August 2020)
- (4) [Andrea J. Welsh](#), [Covert Care: The Cycle of Mental Health and Conference Fatigue](#). *oSTEM Blog*. (April 2019).
- (3) [Andrea J. Welsh](#), It's time for physicists to talk about mental health *Physics Today*. (May 2017) DOI: <http://dx.doi.org/10.1063/PT.6.3.20170531a>
- (2) [Andrea J. Welsh](#), [Snowbird Meeting Turns Chaotic: SIAM Dynamical Systems 2015 Conference Review](#), *Dynamical Systems Today* (July 2015).
- (1) Christopher Marcotte and [Andrea Welsh](#), [Dynamics Day US XXXIII Conference Review](#), *Dynamical Systems Today* (January 2014).

Awards

APS GSNP Student Speaker Award Finalist	March 2019
APS FGSA Travel Award for Excellence in Graduate Research	October 2018
Best Contributed Talk, 15th ECC Conference, Madrid, Spain	June 2018
GT Lavender Award for LGBTQIA Student Leadership	Spring 2017
GT Diversity Championship Award	Fall 2015

AAPT Outstanding Teaching Assistant Award	Spring 2015
GT Women's Leadership Conference- Outstanding Graduate Student	Fall 2014

Grants and Fellowships (14)

Weatherly Travel Grant (\$1000) Georgia Institute of Technology, School of Physics, Atlanta, GA	June 2018
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Active Materials Project Summer School (\$500) Georgetown University, Washington, DC	June 2017
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Weatherly Travel Grant (\$1000) Georgia Institute of Technology, School of Physics, Atlanta, GA	May 2017
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SIAM Travel Awards Conference on the Life Sciences (LS16), Boston, MA (\$650)	March 2016
Conference on Applications of Dynamical Systems (DS15), Snowbird, UT (\$650)	Dec 2014

Travel Award (\$500) Frontiers in Physics, Pattern Formation, and Complex Materials Far From Equilibrium National Academy of Sciences, Washington DC	October 2015
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Travel Award (550€) Dynamics of Coupled Oscillators: 40 years of the Kuramoto Model Workshop Max Planck Institute for Physics of Complex Systems, Dresden, Germany	July 2015
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Graduate Woman of Distinction (\$1000) Women's Leadership Conference, Georgia Institute of Technology, Atlanta, GA	October 2014
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John L and Anne Crawford Endowed Presidential Scholarship (\$15000) University of Texas- Austin, Austin TX	Spring 2012
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Undergraduate Research Opportunities Program (UROP) Grants, Boston University	
<i>Calibration and Monitoring of LHC's ATLAS Muon Spectrometer, (\$2000)</i>	Summer 2010
<i>Calibration and Monitoring of LHC's ATLAS Muon Spectrometer, (\$4000)</i>	Spring 2010
<i>Graphene Fabrication and Spectroscopy, (\$500)</i>	Spring 2009

Research Experience for Undergraduates (REU) Internships	
<i>Particle Physics Experiment and Computation, SUNY Stony Brook, (\$3300)</i>	Summer 2009
<i>Graphene Annealing, Boston University Photonics Center, (\$4400)</i>	Summer 2008

Invited Talks (Total 16)

European Physical Society: Young Minds <i>Dealing with Mental Health as a Young Scientist</i>	May 2021
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- Colloquium – *Dealing with Mental Health as a Young Scientist*** April 2021
Department of Physics, College of William and Mary
- Snowmass Town Hall** February 2021
Panel of experts on mental health concerns
- Grad Student Seminar - *Dealing with Mental Health as a Young Scientist*** January 2021
University of Notre Dame, Department of Physics
- LIGO-Virgo-KAGRA Collaboration Meeting** September 2020
- APS March Meeting FECS Session - [Mental health challenges for early career physicists](#)**
Denver, Colorado (hosted virtually) March 2020
- Seminar - *Swarms and Cells: Collective Behavior via Local Interactions in Biological Systems***
Department of Physics and Astronomy, Tufts University March 2019
- Seminar - *Swarms and Cells: Collective Behavior in Biological Systems***
Department of Physics, Loyola University New Orleans February 2019
- Colloquium - *Coming Together: Individuals at Different Scales Working for A Common Goal***
Department of Physics and Astronomy, University of Mississippi Nov 2018
- Seminar - *Caring for your Mental Health as a Graduate Student*** November 2018
Society of Women in Physics, University of Mississippi
- Colloquium - *Coming Together: Individuals at Different Scales Working for A Common Goal***
Department of Physics and Astronomy, Agnes Scott College Nov 2018
- 88th LHCb Week - *Mental Health Care in Academia: A graduate student perspective*** Jun 2018
CERN, Meyrin, Switzerland
- Seminar - *Mental Health Care in Academia: A graduate student perspective*** June 2018
Universitat de València, València, Spain
- Seminar - *Managing your mental health as a graduate student*** November 2017
Syracuse University, Syracuse, NY
- APS March Meeting FGSA Session - [Dealing with Depression and Anxiety as a Graduate Student and the benefits of Reaching Out](#)**
New Orleans, LA March 2017
- Seminar - *Multiple Stable Manifolds of a Spatially Extended Lattice Kuramoto Model*** Jul 2015
Max Planck Institute for Dynamics and Self-Organization, Göttingen, Germany

Contributed Talks (Total 22)

SIAM Dynamical Systems 2021 , (Hosted Virtually) <i>Chimeras as a way to model anatomical reentry in cardiac models</i>	May 2021
APS March Meeting , (Hosted Virtually) <i>Chimeras as a way to model anatomical reentry in cardiac models</i>	March 2021
APS March Meeting , Denver, CO (Hosted Virtually) <i>Pattern Selection in Shallow Suspensions of Brine Shrimp</i>	March 2020
SIAM Dynamical Systems 2019 , Snowbird, Utah <i>Using a Micro-Controller for Dynamics Visualization</i>	May 2019
APS March Meeting , Boston, MA <i>Pattern Selection in Brine Shrimp Swarms</i>	March 2019
15th Experimental Chaos and Complexity Conference , Madrid, Spain <i>Spatial Pattern Formation in Aggregations of Artemia Franciscana</i>	June 2018
APS March Meeting , Los Angeles, California <i>Chimera States with Local Coupling: the 5th Order FitzHugh-Nagumo Model</i>	March 2018
SIAM Dynamical Systems 2017 , Snowbird, Utah <i>Pattern Formation of Swarms of Artemia Franciscana</i>	May 2017
Physics of Living Systems Seminar , Georgia Tech, Atlanta, GA <i>Pattern Formation of Swarms of Artemia Franciscana</i>	April 2017
APS March Meeting , New Orleans, LA <i>Chimera states in 1 and 2 dimensions in a 5th order FitzHugh-Nagumo model</i>	March 2017
American Association of Physics Teachers Winter Meeting , Atlanta, GA <i>Creating Space for Mental Health at CUWIP</i>	February 2017
SIAM Conference on the Life Sciences , Boston, MA <i>Crowds as an Excitable Medium for Spiral Wave Dynamics</i>	July 2016
APS March Meeting , Baltimore, MD <i>Crowds as an Excitable Medium for Spiral Wave Dynamics</i>	March 2016
9th Southeast Meeting on Soft Materials , Atlanta, GA <i>Pattern Formation of Artemia franciscana</i>	May 2016
SIAM Dynamical Systems 2015 , Snowbird, Utah <i>Studies of Stable Manifolds of a Spatial Extended Lattice Kuramoto Model</i>	May 2015

Wet & Wild Seminar , Georgia Institute of Technology, Atlanta, GA <i>Kuramoto, the Mean Field Model, and how it fails</i>	Sept 2014
SIAM Conference on the Life Sciences , Charlotte, NC <i>Phase synchronization of nearest-neighbor coupled oscillators: A bio-inspired approach from a Mexican Jumping Beans Network</i>	August 2014
First BCAM Workshop on Nonlinear Dynamics in Biological Systems Basque Center for Applied Mathematics, Bilbao, Spain <i>Studies of Synchronization and Wave Solutions of the KM Model Using MJB</i>	June 2014
Advances in Cardiac Dynamics Workshop Max Planck Institute for Dynamics and Self-Organization, Göttingen, Germany <i>Studies of Synchronization and Wave Solutions of the KM Model Using MJB</i>	June 2014
Physics of Living Systems Seminar , Georgia Tech, Atlanta, GA <i>Learning More About Synchronization Through Mexican Jumping Beans</i>	April 2014
CERN , Meyrin, Switzerland <i>Muon Drift Tube Chamber Alignment</i>	June 2010
Physics/Astronomy REU Student Symposium , SUNY Stony Brook, NY <i>Testing the High Voltage Filter Modules of the Liquid Argon Calorimeter and Simulations for ATLAS</i>	August 2009
Poster Presentations (Total 14)	
oSTEM 8th Annual Conference , Houston, TX <i>Pattern formation of brine shrimp aggregation</i>	November 2018
Soft Matter Frontiers , Georgia Institute of Technology <i>Pattern formation of brine shrimp aggregation</i>	April 2018
XXXVI Dynamics Days US 2017 , Silver Spring, MD <i>Dynamics of a Human Spiral Wave</i>	January 2017
oSTEM 6th Annual Conference , Denver, CO <i>Dynamics of a Human Spiral Wave</i>	November 2016
Frontiers in Physics, Pattern Formation, and Complex Materials Far From Equilibrium National Academy of Sciences, Washington DC <i>Multi-stable Manifolds of a Spatially Extended Lattice Kuramoto Model</i>	October 2015
Dynamics of Coupled Oscillators: 40 years of the Kuramoto Model Workshop	July 2015

Max Planck Institute for Physics of Complex Systems, Dresden, Germany
Multi-stable Manifolds of a Spatially Extended Lattice Kuramoto Model

Georgia Tech Research & Innovation Conference Georgia Tech, Atlanta, GA March 2014
Coupling-Induced Synchronization of Mexican Jumping Beans

Georgia Scientific Computing Symposium, Kennesaw, GA February 2014
Coupling-Induced Synchronization of Mexican Jumping Beans

XXXIII Dynamics Days US, Georgia Institute of Technology, Atlanta, GA January 2014
Coupling-Induced Synchronization of Mexican Jumping Beans

Physics of Living Systems Conference, Princeton University, Princeton, NJ August 2013
Three Excitable Systems of Cardiac Dynamics

Society of Physics Students Zone 1 Conference, UMass, Dartmouth, MA April 2011
Calibration and Alignment of Muon Drift Tube Chambers of ATLAS

UROF Symposium, Boston University, Boston MA October 2010
Calibration and Alignment of Muon Drift Tube Chambers of ATLAS

Society of Physics Students Zone 1 Conference, Boston University, Boston, MA March 2009
The Fabrication and Electronic Properties of Graphene

Conference for Undergraduate Women in Physics, Yale University, CT January 2009
Annealing and Raman Spectroscopy of Graphene

REU Photonics Symposium, Boston University, Boston MA August 2008
Annealing and Raman Spectroscopy of Graphene

Teaching Experience

University of Pittsburgh, Pittsburgh, PA

Instructor, “MATH 0290: Introduction to Calculus & Analytic Geometry I” Fall 2021

Instructor, “MATH 0220 Differential Equations” Fall 2020, Spring 2021

Private Tutor (> 300 hrs) through Wyzant, Austin, TX, Atlanta, GA 2012-Present

Subjects: *high school physics, AP Physics B & C, college physics I & II, pre-algebra, algebra pre-calculus, AP Calculus, differential calculus, integral calculus, differential equations, SAT Math prep, ACT Math prep, quantum mechanics, linear algebra, high school chemistry*

Georgia Institute of Technology, Atlanta, GA

Guest Lecturer, “Introductory Physics I” Spring 2020

1 Lecture on Circular motion

Guest Lecturer, “Computational Physics” Spring 2019

2 Lectures on Arduino Programming

Teaching Assistant, “Computational Physics” Spring 2015

Guest Lecturer, “Computational Physics” Spring 2015

2 Lectures on Chaos and Nonlinear dynamics

2 Lectures on Arduino Programming

<i>Lab Instructor, “Introduction to Physics I”</i>	2012-2013
Loyola University New Orleans , New Orleans, LA	
<i>Guest Lecturer, “Introduction to Electromagnetism”</i>	Spring 2019
ITT Tech , Kennesaw, GA	
<i>Guest Lecturer, “Calculus II”</i>	Dec 2014-Jan 2015
University of Texas-Austin , Austin, TX	
<i>Teaching Assistant, “Integral Calculus”</i>	Fall 2011

Conferences Organized

APS 2016 Conference for Undergraduate Women in Physics @ Georgia Tech	2016
<ul style="list-style-type: none"> ▪ 200+ attendees from the South East ▪ First time at Georgia Institute of Technology/in Georgia 	

Conference Sessions Organized

- (4) “Simple Systems with Complex Dynamics” mini-symposia at SIAM on Applications of Dynamical Systems, Snowbird, UT, May 2019
- (3) “Simple Systems with Complex Dynamics PT 1 & 2” mini-symposia at SIAM on Applications of Dynamical Systems, Snowbird, UT, May 2017
- (2) “Stress & Strain: Mental Health in Graduate School” Invited session at APS March Meeting, New Orleans, 2017
- (1) “Simple Systems with Complex Dynamics” mini-symposium at SIAM on Applications of Dynamical Systems, Snowbird, UT, May 2015

Science Camps Organized

Georgia Institute of Technology	Summer 2018
Facilitator, “Chaos Campus”, Atlanta GA	
<ul style="list-style-type: none"> ▪ Developed curriculum for hands on camp for High School Students ▪ Facilitated one session with 24 students respectively 	

Georgia Institute of Technology	Summer 2017, 2018
Facilitator, “Roller Coaster Physics”, Atlanta GA	
<ul style="list-style-type: none"> ▪ Developed curriculum for hands on camp for Middle & High School Students ▪ Facilitated two sessions each year with 30 and 40 students respectively 	

Professional Service

oSTEM Conference	October 2021
Virtual	
<ul style="list-style-type: none"> ▪ Co-organized and co-facilitating panel “Quitting is often the hardest thing to do” 	
APS REU Seminar	August 2021
Virtual	

- Facilitated workshop “Dealing with Mental Health as a Young Scientist”

Women in Physics, University of Bath

March 2021

Virtual

- Invited talk “Disorder, chaos, and formation of patterns: My journey through a nonlinear physics PhD”

APS 2021 Conference for Undergraduate Women in Physics

January 2021

Virtual

- Participated on LGBTQ+ Panel (x2), and Mental Health in Physics Panel (x2)

Georgia Tech Graduate Student Diversity Council, Physics Rep.

January 2019-June 2020

Georgia Institute of Technology

Georgia Tech Grad Pride, Vice President

Fall 2018-Summer 2019

Georgia Institute of Technology, Atlanta GA

LGBTQIA+ Resource Center Peer-Education Safe Space Facilitator

Fall 2015-Fall 2019

Georgia Institute of Technology, Atlanta, GA

APS 2019 Conference for Undergraduate Women in Physics

January 2019

University of Alabama, Tuscaloosa, AL

- Facilitated 4 workshops: mental health x2, imposter syndrome, How to Be an Ally

President’s Undergraduate Research Awards (PURA) Reviewer

2014-2019

Georgia Institute of Technology, Atlanta GA

APS 2018 Conference for Undergraduate Women in Physics @ U of Virginia

January 2018

University of Virginia, Charlottesville, VA

- Facilitated workshops on mental health

oSTEM Conference

November 2017

Chicago, IL

- “Destigmatizing Invisible (Dis)Abilities and Illnesses within the LGBTQIA+ Community” Panelist
- “It’s Okay to Not Be Okay: Managing Your Mental Health” Panelist

APS Forum of Graduate Student Affairs, Member at Large

Jan 2016-Dec 2017

- Travel Award Committee Chair
- March and April Meeting Program Committee
- Social Media Representative

APS 2017 Conference for Undergraduate Women in Physics @ Virginia Tech

January 2017

Virginia Tech, Blacksburg, VA

- Co-facilitated “LGBT+ Roundtable” breakout session with 18 attendees

- Society of Women in Physics, President** 2014-2017
Georgia Institute of Technology, Atlanta, GA
- Organized networking events in and outside of the School of Physics
 - Organized monthly activities
 - Developed mentoring program for students and faculty (which had over 30 participants)
 - Meet with incoming and prospective female undergraduate and graduate students through FASET and other programs
 - Organized panels for undergraduates on preparing for graduate school
 - Established SWiP as an official Georgia Tech organization
 - Organized the first Women’s Research Symposium on GT Campus
 - Diversity Committee Chair (2017)
- Center for Global Diversity and Inclusion’s National Coming Out Day Panelist** Fall 2016
Agnes Scott, Atlanta GA
- APS 2016 Conference for Undergraduate Women in Physics** 2014-2016
Georgia Institute of Technology, Atlanta, GA
- **Chair of the local organizing committee**
 - Invited speakers, secured conference space, advertised, organized workshops
 - Secured funding from institution, professional organizations, and corporations
 - Member of the National Organizing Committee through the American Physics Society
 - Organized and facilitated workshops “LGBTQIAP+ Roundtable”, and “Being a Leader: Starting a WiP Group, Leadership Skills, Mentoring”
- APS 2015 Conference for Undergraduate Women in Physics** January 2015
NC Research Triangle, Durham, NC
- Moderator for “Sexuality Roundtable”
 - Panelist for “How to Get Involved in Research”
- NOGLSTP’S Out to Innovate and oSTEM’s 4th Annual Conference Judge** November 2014
Georgia Institute of Technology, Atlanta GA
- Girls’ Incorporated STEM Summit Volunteer** October 2014
Georgia Institute of Technology, Atlanta GA
- Developed and facilitated activity with middle school girls
- Peach State Louis Stokes Alliance for Minority Participation Judge** September 2014
Georgia Institute of Technology, Atlanta GA
- Experienced TA Panel participant** August 2013, 2014, 2016
Georgia Institute of Technology, Atlanta GA
- Talked with incoming first year graduate students about teaching
- Graduate Student Panel participant** July 2014
Georgia Institute of Technology, Atlanta GA

- Invited to participate on a panel to talk to SURE/REU students about graduate school and fellowships in science fields

Boston University Physics Tour Coordinator Spring 2011
Boston, MA

- Interacted with incoming freshmen physics majors and parents to talk about the department

Community

Mathematics in Motion March 2018

- Helped plan math portion of a performance piece on the subject of “*The Seven Bridges of Königsberg*,” aimed at children and families

Meadowcreek High School Go-STEM Fair, Atlanta, GA October 2013, 2014, 2015

- Participated with hands on activities about physics

Atlanta Science Festival Demonstrator, Atlanta, GA March 2015

- Organized a booth called “Oscillations-The Rhythm of Life” where we performed demonstrations on chemical and mechanical oscillations for a general audience

Atlanta Science Festival Demonstrator, Atlanta, GA March 2014

- Organized a booth called “How the Heart Works or Doesn’t” for families attending the event

2nd Annual Latino College and STEM Fair Demonstrator, Atlanta GA March 2014

- Conducted physics demonstrations for Latino children and parents
- Advised about college education and careers in physics

Rabun County Middle School and Osborne High School, Atlanta, GA October 2013

- Performed physics demonstrations via video conference

Saturday Morning Math Group, University of Texas-Austin 2011-2012

- Aided middle and high school students work on problems after lecture

Science, Engineering and Technology (SET) in the City, Boston, MA April 2011

- Organized and presented physics demonstrations for young women in middle and high school
- Facilitated hands-on lab activities

Chenery Middle School, Belmont, MA Dec. 2010

- Organized and presented kinematics and mechanics demonstrations for two classes

Peabody Public Middle School, Peabody, MA 2008, 2009

- Organized and presented material on the sun (2008) and energy (2009) to two classes
- Facilitated a related hands-on activity

U-Design (Formally **DesignCamp**), Boston University College of Engineering
▪ Facilitated middle school students in hands-on activities

July 2008

In the News

How to be Human in Physics , Symmetry Magazine	2021
Stressed? Depressed? You are not alone , Physics Today	2020
Pride Perspectives: Andrea Welsh on Grad Pride, Friendships, Feeling Connected	2020
Andrea Welsh: PhD in Physics	2019
oSTEM March 2019 Rising Star	2019
Minding Mental Wellness	2018
Physics Today 2017's most read articles	2017
Women in Physics Meet in Georgia Tech	2016

Professional Affiliations

Member, American Physical Society	2007-present
Member, former BU chapter president (2010), Society of Physics Students (SPS)	2007-present
Member, oSTEM	2014-present
Member, Society for Industrial and Applied Mathematics (SIAM)	2014-present
Member, American Association of Physics Teachers (AAPT)	2015-present

Mentored Students

Student, degree, school, project, year.

- Gwen Kvasnicka, Post BS, *Smooth particle fluid simulations*, Spring 2020
- Divya Velivela, high school, *Coupling of Saline Oscillator Flows*, Summer 2018, 2019
- Ellie Finch, high school, *Tracking brine shrimp at different temperatures*, 2018-2019
- Michael Barnhill, B.S. in Physics, Georgia Institute of Technology, *Pattern formation of brine shrimp aggregation*, 2018
- Krishma Singal, B.S in Physics, Georgia Institute of Technology, *Reaction-Diffusion and photosensitive brine shrimp*, 2014-2017
- Zoha Naqwe, B.S. in Physics and Biology, Georgia Institute of Technology, *Synchronization of Mexican Jumping Beans* 2016-2017
- Sophia Wiesenfeld, high school, *Parameters that affect period of the Saline Oscillator*, Summer 2016
- Madeline Lazar, B.S. in Physics, Georgia Institute of Technology, *Modeling the Newton beads* 2014-2015

