

# JUSTIN H. ROBINSON – CURRICULUM VITAE

## CONTACT INFORMATION

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Department of Physics & Astronomy  
Georgia State University  
Atlanta, GA 30302

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## CURRENT POSITION

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<b>Lecturer</b> Georgia State University (GSU)	2024-Present
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## EDUCATION

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<b>GSU</b> Ph.D., Astronomy Advisor: Dr. Misty Bentz	2022
<b>GSU</b> M.S., Physics Advisor: Dr. Misty Bentz	2020
<b>Saint Mary's College of California (SMC)</b> B.S. in Physics with Astrophysics Concentration Advisors: Dr. Ronald Olowin, Dr. Brian Hill	2017

## PREVIOUS EMPLOYMENT

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<b>Visiting Lecturer</b> GSU	2023-2024
<b>Tenure Track Assistant Professor</b> Troy University (TU)	2021-2023
<b>Graduate Research Assistant</b> GSU	2017-2022
<b>Astronomy Graduate Lab Coordinator</b> GSU	2019-2021
<b>Mathematics Tutorial Teacher</b> Taught pre-calculus and calculus tutorial classes at SMC	2016-2017
<b>Laboratory Assistant</b> Assisted in the astronomy lab course at SMC	2015-2017

## PROFESSIONAL AFFILIATIONS

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Fernbank Science Center	2025-Present
Atlanta Astronomy Club	2025-Present
Astronomy on Tap (AoT)	2024-Present
Georgia Space Grant Consortium (GSGC)	2018-Present
American Astronomical Society (AAS) Member	2017-Present
Troy Astronomical Society (TAS)	2021-2023
Arecibo Legacy Fast ALFA (ALFALFA)	2014-2017
Arecibo Pisces-Perseus Supercluster Survey (APPSS)	2014-2017

## SKILLS

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Proficient in IDL, Python, L<sup>A</sup>T<sub>E</sub>X, IRAF, DS9, MacOS, Windows, Linux, Microsoft Office Suite  
iCollege instructor and proficiency certification  
Canvas instructor and proficiency certification  
Knowledgeable in MaximDL  
CAMEL: geometric and dynamical modeling software of reverberation mapping data.  
Galfit: galaxy surface brightness modeling software.  
BusyFit: analytical modeling of emission line profiles.  
Green Bank Telescope (GBT) GBTIDL: IDL suite for reduction and analysis of GBT spectral data.  
Remote observing, GBT  
Arecibo Radio Telescope IDL\_LBW: IDL suite for reduction and analysis of Arecibo spectral data.  
Remote observing, Arecibo Telescope

## LEADERSHIP POSITIONS

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On-Campus Observation Director, GSU	2025-Present
GSU Affiliate Director, GSGC	2024-Present
AoT Atlanta Program Manager	2024-Present
<a href="#">Click here for AoT Atlanta's website</a>	
Georgia Outreach Team for Space (GOT Space) Faculty Lead, GSGC	2023-Present
<a href="#">Click here for GOT Space's website</a>	
Three Taverns Astrophysics Lecture Series Director	2023-2024
Research Experience for Undergraduates (REU) Program Mentor, GSU	2024
Interim GSU Affiliate Director, GSGC	2023-2024
Research Committee Chair, Faculty Senate, TU	2023
Faculty Senate, TU	2022-2023
TAS President, TU	2022-2023
TAS Vice President, TU	2021-2022
Astronomy Graduate Lab Coordinator, GSU	2019-2021
AstroPAL (Peer Advising Leader), GSU	2019-2021
GOT Space Graduate Lead, GSGC	2018-2021
Graduate Student Liaison, AstroPAL & Physics Graduate Student Association, GSU	2018-2019
ALFALFA Undergraduate Research Leader, SMC	2017

## COURSES DEVELOPED AND TAUGHT

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**PHYS-1111K “Introductory Physics I”**  
Undergraduate, algebra-based physics lab science course, GSU

**PHYS-2211K “Principles of Physics I”**  
Undergraduate, calculus-based physics lab science course, GSU

**PHYS-4870K “Honors Thesis I”**  
Undergraduate senior research thesis physics course, GSU

**PHYS-4900K “Research Projects”**  
Undergraduate independent research project physics course, GSU

**ASTR-1000K “Introduction to the Universe”**  
Undergraduate science course, GSU

**ASTR-1010K “Astronomy of the Solar System”**  
Undergraduate lab science course, GSU

**ASTR-1020K “Stellar and Galactic Astronomy”**  
Undergraduate lab science course, GSU

**ASTR-3301 “Extragalactic Astronomy”**

Undergraduate astronomy &amp; astrophysics course, TU

**SCI-1110 “Exploring the Solar System”**

Undergraduate lab science course, TU

**SCI-L110 “Exploring the Solar System Lab”**

Undergraduate science lab, TU

**SCI-1110 ONLINE “Exploring the Solar System ”**

Online undergraduate lab science course, TU

**SCI-L110 ONLINE “Exploring the Solar System Lab”**

Online undergraduate science lab, TU

**SCI-2240 “Principles of Astronomy: Stars, Galaxies, and Cosmology”**

Undergraduate lab science course, TU

**SCI-L240 “Principles of Astronomy: Stars, Galaxies, and Cosmology Lab”**

Undergraduate science lab, TU

**SCI-2240 ONLINE “Principles of Astronomy: Stars, Galaxies, and Cosmology”**

Online undergraduate lab science course, TU

**SCI-L240 ONLINE “Principles of Astronomy: Stars, Galaxies, and Cosmology Lab”**

Online undergraduate science lab, TU

**SCI-L233 “Physical Science Laboratory”**

Undergraduate science lab, TU

**PREVIOUS TEACHING EXPERIENCE**

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**Visiting Lecturer**

2023-2024

Instructor of record for undergraduate physics and astronomy lecture courses at GSU

**Tenure Track Assistant Professor**

2021-2023

Instructor of record for undergraduate physics and astronomy lecture and lab courses at TU

**Astronomy Lab Instructor**

2017-2020

Taught 1010 and 1020 labs for introductory astronomy courses at GSU

**Mathematics Tutorial Teacher**

2016-2017

Taught pre-calculus &amp; calculus tutorial classes at SMC

**Mathematics Tutor**

2016-2017

Student tutor at SMC

**SMC Substitute Lecturer**

2016-2017

Taught 2 astronomy lectures as a substitute instructor

**Teaching Assistant, Astronomy**

2015-2017

**Mathematics Private Tutor**

2013-2015

**UNDERGRADUATE STUDENTS ADVISED (ACADEMIC)**

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Nicole Eikmeier, BS in physics, astronomy &amp; astrophysics minor, TU

2023

Elizabeth Alexander, BS in physics, astronomy &amp; astrophysics minor, TU

2023

Veronica Lahue, BS in physics, astronomy &amp; astrophysics minor, TU

2022-2023

Thomas Kay, BS in physics, astronomy &amp; astrophysics minor, TU

2022-2023

Aster Hamaker, BS in physics, astronomy &amp; astrophysics minor, TU

2022-2023

Mystic Wilkes, BS in physics, astronomy & astrophysics minor, TU  
Austen Hensley, BS in physics, TU

2022-2023  
2021

## UNDERGRADUATE STUDENTS ADVISED (RESEARCH)

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Nathan Borchers, BS in physics, astronomy concentration, GSU	2025
Richelle Nunez, BA in music education, GSU	2025
Abraham Seck, BS in physics, astronomy concentration (TEAM-UP Scholarship), GSU	2025
Meenakshi Raj, BS in physics (PHYS 4870K student), GSU	2025
Mahitha Ramachandran, BS in astronomy & astrophysics (REU Student), University of Pittsburgh	2024
Ishita Chintala, BS in physics (REU Student), GSU	2024
Naveen Ali, BS in aerospace engineering, Georgia Institute of Technology	2023-2024
Atul Gautam, BS in physics, GSU	2023-2024
Bradley Clemons, BS in physics (PHYS 4900K student), GSU	2023-2024
Thomas Gregoire, BS in physics (PHYS 4900K student), GSU	2023
Veronica Lahue, BS in physics, astronomy & astrophysics minor, TU	2022-2024
Thomas Kay, BS in physics, astronomy & astrophysics minor, TU	2022-2024

## AWARDS AND HONORS

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Nominee, Ingalls Award for Excellence in Classroom Teaching, TU	2023
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## RESEARCH INTERESTS

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HI 21 cm emission line diagnostics; active galactic nucleus host galaxies; extragalactic distance determinations; galaxy baryonic/dynamical/dark matter mass determinations; relationships between galaxies and supermassive black holes; supermassive black hole mass measurements via reverberation mapping.

## PEER-REVIEWED PUBLICATIONS

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“*Investigating the Narrow Line Region Dynamics in Nearby Active Galaxies*”, Beena Meena, D. Michael Crenshaw, Henrique R. Schmitt, Mitchell Revalski, Zo Chapman, Travis C. Fischer, Steven B. Kraemer, **Justin H. Robinson**, Julia Falcone, Garrett E. Polack 2023, ApJ, 943, 98

[Click here for the abstract](#)

“*Tully-Fisher Distances and Dynamical Mass Constraints for 24 Host Galaxies of Reverberation-Mapped AGN*”, **Justin H. Robinson**, Misty C. Bentz, Hélène M. Courtois, Megan C. Johnson, D. M. Crenshaw, Beena Meena, Garrett E. Polack, Michele L. Silverstein, Dading Chen 2021, ApJ, 912, 160

[Click here for the abstract](#)

“*HI Spectroscopy of Reverberation-Mapped Active Galactic Nuclei*”, **Justin H. Robinson**, Misty C. Bentz, Megan C. Johnson, Hélène M. Courtois, Benjamin Ou-Yang 2019, ApJ, 880, 68

[Click here for the abstract](#)

## UNDERGRADUATE CONFERENCE PUBLICATIONS

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“*Dynamical Modeling of the Broad Line Region of NGC 4151*”, Mahitha Ramachandran, **Justin H. Robinson** 2025, ASPC, 540, 9

[Click here for the abstract](#)

## ACCEPTED PROPOSALS

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“**HI Spectroscopy of Active Galaxies with Direct Black Hole Mass Measurements**”  
GBT Project ID: GBT18B-258  
Hours allocated: 208.25

## GRANTS

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<b>“AsTropaLooza: The Astronomy of ATL Showcase”</b>	2025
Amount Allocated: \$30,000	
Funding Source: NASA, GSGC	
PI: Justin Robinson	
<b>“The Georgia Outreach Team for Space”</b>	2024
Amount Allocated: \$10,000	
Funding Source: NASA, GSGC	
PI: Sebastien Lepine, Co-PI: Justin Robinson	
<b>“Georgia State University - GSGC Fellowship” (x2)</b>	2023, 2024
Amount Allocated: \$10,000	
Funding Source: NASA, GSGC	
PI: Sebastien Lepine, Co-PI: Justin Robinson	
<b>“Georgia State University - GSGC Visiting Observer Program” (x2)</b>	2023, 2024
Amount Allocated: \$4,000	
Funding Source: NASA, GSGC	
PI: Sebastien Lepine, Co-PI: Justin Robinson	
<b><u>Total: \$68,000</u></b>	

## OBSERVING EXPERIENCE

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100m GBT: Green Bank Observatory, Green Bank WV  
305m Arecibo Telescope: Arecibo Observatory, Arecibo PR  
3.5m A.R.C. Telescope: Apache Point Observatory, Sunspot NM  
0.5m A.R.C.S.A.T. Telescope: Apache Point Observatory, Sunspot NM  
20m Green Bank Telescope: Green Bank Observatory, Green Bank WV  
0.60m Miller Telescope: Hard Labor Creek Observatory, Rutledge GA  
0.4m Meade Schmidt-Cassegrain Telescope: Geissberger Observatory, Moraga CA

## CONFERENCE TALKS AND POSTERS

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<b>245th AAS Meeting, Poster Number 252.05</b>	2025
“Dynamical Modeling of the Broad Line Region of NGC 4151” Mahitha Ramachandran, <b>Justin Robinson</b>	
<b>242nd AAS Meeting, Poster Number 341.23</b>	2023
“On the Tully-Fisher Relation for AGN Host Galaxies” <b>J. Robinson</b> , M. Revalski, T. Kay, V. Lahue, M. Menon	
<b>240th AAS Meeting, Talk Number 335.04D</b>	2022
“Distances & Black Hole Masses of Nearby Seyferts” <b>J. Robinson</b> , M. Bentz	
<b>237th AAS Meeting, Talk Number 209.01</b>	2021
“Dynamical Masses for the Host Galaxies of Reverberation-Mapped AGN” <b>J. Robinson</b> , M. Bentz	
<b>236th AAS Meeting, Talk Number 225.03</b>	2020
“Fundamental Properties of Active Galaxies: Distances and Masses of Nearby Seyferts,” <b>J. Robinson</b> , M. Bentz Recording available, <a href="#">click here</a>	
<b>7th Perimeter Astronomy Conference</b>	2019
“Connecting AGN Host Galaxies to the Cosmic Distance Ladder”	

<b>Georgia Regional Astronomers Meeting</b> “HI Spectroscopy of Reverberation-Mapped Active Galactic Nuclei” Recording available, <a href="#">click here</a>	2018
<b>6th Perimeter Astronomy Conference</b> “HI Spectroscopy of Reverberation-Mapped Active Galactic Nuclei” Recording available, <a href="#">click here</a>	2018
<b>5th Perimeter Astronomy Conference</b> “The Radio View of Galaxies in the Nearby Universe”	2017

## INVITED TALKS AND COLLOQUIA

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<b>Space Telescope Science Institute Galaxies and AGNs Journal Club Guest Presenter</b> “On the Tully-Fisher Relation for AGN Host Galaxies”	2024
<b>Bradley Observatory at Agnes Scott College Open House</b> “Building the Real Images of Supermassive Black Holes”	2023
<b>Charlie Elliott Astronomy Club</b> “Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	2022
<b>University of Alabama at Birmingham Physics Colloquium</b> “Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	2022
<b>Charlie Elliott Astronomy Club Invited Talk</b> “Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	2022
<b>Von Braun Astronomical Society</b> “Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	2022
<b>Space Telescope Science Institute Galaxies and AGNs Journal Club Guest Presenter</b> “Distances and Masses for 24 Host Galaxies of Reverberation-Mapped AGN”	2021
<b>United States Naval Observatory Journal Club Guest Presenter</b> “Tully-Fisher Distances and Dynamical Mass Constraints for 24 Host Galaxies of Reverberation-Mapped AGN”	2021
<b>Bradley Observatory at Agnes Scott College Open House</b> “Probing Nearby Active Galaxies: Distance, Masses, Dark Matter, and Black Holes” Recording available, <a href="#">click here</a>	2021

## WORKSHOPS

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<b>Learning Science Through the Lens of Astronomy</b> Hosted professional development workshop for Georgia STEM teachers; interactive K-12 STEM presentations of astronomy-themed topics Recording available, <a href="#">click here</a>	2021
<b>Single Dish Training Workshop</b> Observational training and data analysis tools for the 100 meterGBT	2018
<b>Undergraduate ALFALFA Workshop</b> Study of galaxy detections from radio spectrum, acquisition of detection characteristics and behavior from radio emission at the Green Bank Observatory	2016

## ASTRONOMY SERVICE

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<b>Subject-matter expert reviewer in a NASA peer review</b>	2023, 2025
<b>Referee for <i>The Astrophysical Journal (ApJ)</i></b>	2022-Present
Scientific referee on 2 research manuscripts	

## UNIVERSITY SERVICE

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<b>GSGC Affiliate Director, GSU</b>	2024-Present
Serve as director of communication, resources, programs, collaborations, proposals, and grant management between GSU and the GSGC	
<b>Physics &amp; Astronomy Undergraduate Advisor, TU</b>	2021-2023
<b>Faculty Senate, TU</b>	2022-2023

## COMMITTEES

Chair, Research Committee	2023
Executive Committee	2023
Athletic Advisory Committee	2022-2023
Academic Affairs Committee	2022-2023

<b>IMPACT Faculty Representative, TU</b>	2022
Representative of Chemistry & Physics Department for new student orientation session	

<b>Commencement Faculty Representative, TU</b>	2022
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<b>Trojan Day Faculty Representative, TU</b>	2021, 2022
Representative of Chemistry & Physics Department for prospective students	

## COLLEGE SERVICE

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<b>Astronomy &amp; Astrophysics Colloquium Director, TU</b>	2022-2023
Curate and manage invited speakers for the astronomy & astrophysics colloquium series for the College of Arts and Sciences at TU	

## HOSTED SPEAKERS

<b>Dr. Mitchell Revalski</b>	
“How Galaxies are Shaped by Supermassive Black Hole Winds”	2022
<b>Dr. Michelle Wooten</b>	
“Light Pollution at Home in the South: How it Affects Us and What We Can Do”	2022
<b>Dr. Eliot Vrijmoet</b>	
“One Big Picture of M Dwarf Binary Star Orbits”	2023

## DEPARTMENT SERVICE

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<b>On-Campus Observation Director, GSU</b>	2025-Present
Organize and facilitate on-campus observing sessions for students of the Department of Physics and Astronomy	
<b>ASTR 1000K Committee, GSU</b>	2024-Present
Construction of and adherence to consistent pedagogy between instructors and advocacy for cost-effective textbook options for ASTR 1000K	
<b>HyperPhysics Committee, GSU</b>	2023-Present
Management and updating of <a href="#">HyperPhysics</a>	

<b>Undergraduate Research Committee, GSU</b> Selection of accepted REU applicants, management of REU program	2023-Present
<b>Departmental Evaluations Committee, GSU</b> Curate and update student learning outcomes and end-of-semester evaluations for ASTR1010K and ASTR1020K courses	2023-2025
<b>Physics Faculty Search Committee, TU</b> Oversee recruitment, interviewing, and hiring of physics faculty member	2023
<b>New Astronomy Course Development, TU</b> “Extragalactic Astronomy”	2022-2023
“Stellar Evolution”	2023
“Astronomy Capstone”	2022-2023
<b>Student Recruitment to Physics Major, TU</b> Students recruited: 7	2022-2023
<b>Astronomy &amp; Astrophysics Minor Development, TU</b> Develop requirements and material included in new Astronomy & Astrophysics minor	2022-2023
<b>GSU Publicity &amp; Outreach Committee Member</b> Reporting of outreach events and student groups in the GSU official newsletter.	2020-2022
<b>Online Instruction Material Development, GSU</b> Built online curriculum for 1010 and 1020 introductory astronomy labs	2020
<b>Workshop Development for Graduate Students Through AstroPAL, GSU</b> Developed material for 1st and 2nd year graduate students (qualifying exam preparation, coding, scientific writing, etc.)	2019-2021

## PUBLIC OUTREACH

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### PROGRAMS

<b>AoT Atlanta Program Manager</b> Curate and manage talks/serve as host for the Atlanta chapter of AoT <a href="#">Click here for AoT Atlanta’s website and featured speaker list</a> As of July 2025: Total events: 27 Featured speakers: 19 graduate students, 12 faculty/research scientists Featured institutions: GSU, GA Tech, Emory, Vanderbilt, Smith College	2024-Present
<b>GOT Space Faculty Lead</b> GOT Space Program faculty lead in association with the GSGC <a href="#">Click here for GOT Space’s website and Impact Map</a> As of July 2025: Number of Unique Schools Visited: 44 Congressional Districts: 7 Total number of impacted K-12 students: ~11,000	2023-Present
<b>AsTropaLooza: The Astronomy of ATL Showcase</b> 4-day K-12 STEM outreach event, competitive grant funding awarded by GSGC/NASA <a href="#">Click here for AsTropaLooza’s website and Impact Map</a> Number of Unique Participating Schools: 15 Congressional Districts: 3 Total number of RSVPs/number of K-12 RSVPs: 301/127	2025



<b>Three Taverns Astrophysics Lecture Series Director</b> Curate, manage, and host GSU graduate student and faculty talks for monthly series at Three Taverns Brewery and Three Taverns Imaginarium	2023-2024
<b>TAS President</b> Curation, manage, and host invited speakers; director of observing sessions	2022-2023
<b>GOT Space Graduate Lead</b> GOT Space Program lead ambassador in association with the GSGC Number of events managed as Graduate Lead: 18	2018-2021

## GSGC-SPONSORED EVENTS/MATERIAL

<b>NASA National Space Grant 30th Anniversary Event on Capitol Hill</b> 1 of 3 representatives of Georgia outreach and GSGC; ran virtual and augmented reality demonstrations; met with 2 Georgia representatives to discuss impact and future funding	2020
<b>Scientific Consultant for “Race Through Space: Galaxy Edition” App</b> Selected galaxies, provided physical information, and calculated distance scales for Science ATL and Atlanta Science Festival’s app <a href="#">Click here for the app homepage</a>	2020
<b>Virtual GOT Space Public Talk</b> Hosted virtual talk and Q&A: “Building M87’s Supermassive Black Hole Image” Recording available, <a href="#">click here</a>	2020
<b>Atlanta Race Through Space 5K</b> Ran GSGC sponsor tent	2019

## CONFERENCES/WORKSHOPS

<b>STEMapalooza Conference</b> Presented GOT Space presentations and demonstrations to Georgia STEM teachers; ran virtual and augmented reality demonstrations	2021
<b>10th Georgia NASA STEM Conference</b> Presented professional development workshop to Georgia STEM teachers	2020
<b>STEM Undergraduate Ambassador Training Co-Facilitator</b> 1 of 2 graduate lead facilitators for training of 18 undergraduate GOT Space ambassadors	2019
<b>Hard Labor Creek Observatory Volunteer</b> Operate telescopes & answer public questions during open houses	2023-Present
<b>SMC Physics Outreach Program Member</b> Research presentations at Saint Mary’s High School, Stockton CA and Athenian High School, Danville CA	2015-2017
<b>SMC Physics &amp; Engineering Program Recruitment</b> Represented the physics department on preview days for prospective students	2015-2017

*Updated 7/18/2025*