

Pip Samuel Petersen

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EDUCATION

UNIVERSITY OF WASHINGTON	2023–
– Doctor of Philosophy in Astronomy	
CASE WESTERN RESERVE UNIVERSITY	2021–2023
– Master’s of Science in Physics	
– <i>Thesis: Cosmic Topology: Limits on Orientable Euclidean Manifolds From Circle Searches</i>	
PENNSYLVANIA STATE UNIVERSITY	2017–2021
– B.S. in Astronomy & Astrophysics with Honors	
– B.S. in Mathematics	
– <i>Thesis: Tunneling Time in Quantum Cosmology</i>	

TEACHING

INSTRUCTOR

- Spring 2023: *Modern Physics*

TEACHING ASSISTANT

- Introductory Physics: *Spring 2022, Fall 2021, Fall 2017*
- Elementary/Observational Astronomy: *Spring 2021, Fall 2020, Fall 2019*
- Modern Physics: *Spring 2019*

SERVICE & LEADERSHIP

Cleveland Public Library Demo Program, <i>Organizer</i>	2022
Physics Graduate Student Association, <i>Secretary & Treasurer</i>	
Physics UnderRepresented Minority Students, <i>Outreach Chair</i>	
PURMS, <i>Graduate Student Mentor</i>	
Student Handbook Review Committee, <i>Chair</i>	
Gilead’s Hackathon-4-HIV, <i>1st Place</i>	
Youth Science Olympiad, <i>Volunteer</i>	
Penn State Instructor Award Committee, <i>Reviewer</i>	2020
Physics Magic Show, <i>Lead Performer</i>	2019
Penn State AstroFest, <i>Volunteer</i>	2018

STUDENTS SUPERVISED

ALYSSA WANG - HIGH SCHOOL STUDENT	FEB 2023 –
– <i>Simulating Non-Trivial Topology: Finite Euclidean Universes</i>	

AWARDS

ARCS Fellow, <i>University of Washington</i>	2023
Graduate Dean’s Instructional Excellence Award, <i>Case Western Reserve University</i>	
NSF Graduate Research Fellow, <i>National Science Foundation</i>	
PATHS STEAM Educational Grant, <i>LGBT Tech</i>	
Gilead Hackathon-4-HIV 1st Place, <i>Gilead Sciences</i>	2022
APS Bridge Scholar, <i>American Physical Society</i>	2021
Schreyer Honors Scholar, <i>Pennsylvania State University</i>	2018
Presidential CES Scholarship, <i>Pennsylvania State University</i>	

RESEARCH

RESEARCHER, CASE WESTERN RESERVE UNIVERSITY
– *Advisor: Dr. Glenn Starkman*

JUL 2022 –

UNDERGRADUATE RESEARCHER, PENNSYLVANIA STATE UNIVERSITY
– *Advisor: Dr. Martin Bojowald*

SEPT 2019 – OCT 2021

UNDERGRADUATE REU RESEARCHER, MOUNT WILSON OBSERVATORY
– *Advisor: Dr. Paula Turner*

JUN 2018 – JUL 2018

UNDERGRADUATE RESEARCH, PSU - SCHUYLKILL
– *Advisor: Dr. Michael Gallis*

JAN 2018 – MAY 2018

UNDERGRADUATE LAB ASSISTANT, PSU - SCHUYLKILL
– *Advisor: Dr. Lee Silverberg*

SEPT 2017 – JUN 2018

PUBLICATIONS

PROGRAMS & CONFERENCES

Penn State 5th Annual Workshop, <i>State College, PA</i>	2023
American Astronomical Society 241st Session, <i>Seattle, WA</i>	
Astrophysical Multimessenger Observatory Network Workshop, <i>Chiba, Japan</i>	2019
American Association of Physics Teachers, <i>Schuylkill, PA</i>	2018
Undergraduate Research Symposium, <i>Schuylkill, PA</i>	2017