

# Travis Court

University of Pittsburgh

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## Education

- 2021 – Present **University of Pittsburgh**, *Ph.D. Candidate in Physics and Astronomy*, Pittsburgh, PA.  
2021 **University of Pittsburgh**, *M.S. in Physics*.  
2018 **Allegheny College**, *B.S. in Physics, Psychology Minor*, Meadville, PA, *Summa Cum Laude*.  
THESIS TITLE: Cassiopeia A: Seeing a Supernova Remnant in a New Light  
RESEARCH ADVISOR: Dr. James C. Lombardi, Jr.

## Research Experience

- Fall 2019 – **Graduate Student**, *University of Pittsburgh*.  
Present RESEARCH ADVISOR: Dr. Carles Badenes  
X-ray and computational research on Type Ia supernova remnants in circumstellar environments  
Summer 2018 **Research Assistant**, *Los Alamos National Laboratory*.  
RESEARCH ADVISOR: Dr. Chris Fryer  
Computational research on binary progenitors to supernovae  
Spring 2015 – **Undergraduate Independent Study and Senior Project**, *Allegheny College*.  
Spring 2018 RESEARCH ADVISOR: Dr. James C. Lombardi, Jr.  
Computational research on merging binary systems using smoothed particle hydrodynamics  
Summer 2017 **Undergraduate Research Assistant**, *Flatiron Institute, Center for Computational Astrophysics*.  
RESEARCH ADVISOR: Dr. Francisco Villaescusa-Navarro  
Computational research on cosmology and Large-Scale Structure  
Summer 2016 **NSF REU**, *Rutgers University*.  
RESEARCH ADVISOR: Dr. Saurabh Jha  
Optical spectroscopy research on Type Ia supernovae

## Awards and Honors

- 2021 **Thomas-Lain Scholarship** University of Pittsburgh  
2019-2020 **Dietrich School of Arts and Sciences Fellowship** University of Pittsburgh  
2018 **Phi Beta Kappa** Allegheny College  
2018 **Summa Cum Laude** Allegheny College  
2017 **Goldwater Scholarship Honorable Mention**  
2017 **Physics Department Junior Student Award** Allegheny College  
2014-2018 **Distinguished Alden Scholar** (High Dean's List) Allegheny College  
2011 **Eagle Scout**

## Presentations

- August 2022 **Supernova Remnants and Their Progenitors**, *Talk*, Harvard Center for Astrophysics.  
“Models for the X-Ray Emission of Type Ia Supernova Remnants in Different Circumstellar Environments”

- March 2022 **19th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, *Poster*, Pittsburgh, PA.  
 “Models for the X-Ray Emission of Type Ia Supernova Remnants in Different Circumstellar Environments”
- May 2018 **Cook-Lahti Senior Scholars Symposium**, *Invited Poster*, Allegheny College.  
 “Cassiopeia A: Seeing a Supernova Remnant in a New Light”
- January 2018 **231st Meeting of the American Astronomical Society**, *Poster*, National Harbor, MD.  
 “Impact of Massive Neutrinos on Dark Matter Halo Environment”
- October 2017 **Gator Day Physics Research Symposium**, *Poster*, Allegheny College.  
 “SALT Spectroscopy of ASASSN-15lh: The Most Luminous Supernova?”
- January 2017 **229th Meeting of the American Astronomical Society**, *Poster*, Grapevine, TX.  
 “SALT Spectroscopy of ASASSN-15lh: The Most Luminous Supernova?”

## Academic Service

- 2021 - Present **Association of Physics and Astronomy Graduate Students**, *Co-President*, University of Pittsburgh.
- 2021 - Present **Dietrich School of Arts and Sciences Graduate Council**, *Graduate Student Representative*, University of Pittsburgh.
- Fall 2020 - Spring 2021 **Dietrich School of Arts and Sciences Council**, *Graduate Student Representative*, University of Pittsburgh.
- Fall 2020 **Computational Astrophysics Seminar**, *Organizer*, University of Pittsburgh.  
 Organized seminar in department focused on computational techniques in astrophysics
- Fall 2017 - Spring 2018 **Allegheny Student Government Committee of Student Affairs**, *Co-Director*, Allegheny College.  
 Directed student life subcommittee of government's general assembly. Representative on Campus Life and Community Standards Faculty Committee
- Spring 2016 - Spring 2018 **Astronomy Club**, *President*, Allegheny College.
- Spring 2017 - Spring 2018 **Society of Physics Students**, *Vice President*, Allegheny College.

## Teaching

- Summer 2022 **Session Leader**, *Numpy III and IV*.  
 AstroPGH Python Bootcamp, University of Pittsburgh, Carnegie Mellon University
- 2021 - 2022 **Private Tutor**, *High School Honors Physics*.
- Summer 2020, **Teaching Assistant**, *Stars, Galaxies, and the Cosmos*.  
 Summer 2021 Physics and Astronomy Department, University of Pittsburgh
- Fall 2020 **Teaching Assistant**, *Basic Laboratory Physics for Science and Engineering*.  
 Physics and Astronomy Department, University of Pittsburgh
- Spring 2016 – Spring 2017 **Teaching Assistant**, *Core Concepts in Physics I and II*.  
 Physics Department, Allegheny College
- Fall 2017 **Teaching Assistant**, *Science in Literature Freshman Seminar*.  
 Physics Department, Allegheny College
- Spring 2015 **Individual Tutor**, *Introductory Calculus for Life Sciences*.  
 Maytum Learning Commons, Allegheny College
- Fall 2014 – Spring 2015 **Teaching Assistant and Individual Tutor**, *GED Class*.  
 Crawford County READ Program, Meadville, PA

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## Outreach

2022 - Present **Astronomy on Tap**, *Organizer*, Two Frays Brewery, Pittsburgh, PA.

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## Publications

2. *Multiplicity Statistics of Stars in the Sagittarius Dwarf Spheroidal Galaxy: Comparison to the Milky Way*, Bonidie, V., **Court, T.**, Daher, C. M., Fielder, C. E., Badenes, C., Newman, J., Moe, M., Kratter, K. M., Walker, M. G., Majewski, S. R., Hayes, C. R., Hasselquist, S., Stassun, K., Kounkel, M., Dixon, D., Stringfellow, G. S., Carlberg, J. K., Anguiano, B., De Lee, N., & Troup, N. W. (2022), *Astrophysical Journal, Letters*, 933, L18.
1. *Weighing neutrinos with the halo environment*, Banerjee, A., Castorina, E., Villaescusa-Navarro, F., **Court, T.**, & Viel, M. (2020), *Journal of Cosmology and Astroparticle Physics*, 2020, 032.