

Sumit K. Sarbadhicary – Curriculum Vitae

Work Address: Physics and Astronomy, University of Pittsburgh. 100 Allen Hall, 3941 O'Hara St., Pittsburgh, PA 15260

RESEARCH INTERESTS

- Supernova progenitors and the delay-time distribution
- Interstellar medium, particle acceleration and shock physics
- Supernova remnants - models, statistics and radio-continuum observations
- Stellar populations and star-formation histories

EDUCATION

- 2014-present** PhD, Astronomy - University of Pittsburgh
Advisor: Carles Badenes,
Co-advisor: Laura Chomiuk (Michigan St.)
Thesis Committee: Jeffrey Newman, Desmond John Hillier, Rupert Croft (CMU), Ayres Freitas,
Thesis: Supernova Remnants in the Local Group galaxies (Expected graduation: 2018)
- 2012-2014** M.S., Astronomy
University of Pittsburgh
- 2008-2012** B.S., Physics (Astronomy conc.)
Louisiana State University

PUBLICATIONS

Published

1. **Sarbadhicary, S. K.**, Badenes, C., Chomiuk, L., Caprioli, D., & Huizenga, D. - *Supernova Remnants in the Local Group I: A model for the radio luminosity function and visibility times of supernova remnants* - 2017, Monthly Notices to the Royal Astronomical Society, 464, 2326
2. Launey, K. D., **Sarbadhicary, S. K.**, Dytrych, T. & Draayer, J. P. - *Program in C for studying characteristic properties of two-body interactions in the framework of spectral distribution theory* - 2014, Computer Physics Communications, 185, 254.

To be submitted

1. **Sarbadhicary, S. K.**, Chomiuk, L., Badenes, C., Soderberg, A. M., Sjouwerman, L. & Dittman, J. - *The oldest SN Ia or the youngest remnants? SN1885a and G1.9+0.3* - 2017, to be submitted to Astrophysical Journal Letters
2. Huizenga, D., Chomiuk, L., Badenes C., & **Sarbadhicary, S. K.** - *A radio-continuum selected sample of supernova remnants in the Magellanic Clouds* - 2017, to be submitted to Astrophysical Journal

TALKS/POSTERS

- *Supernova Remnants: An Odyssey in Space after Stellar Death*, Greece, contributed talk+poster, 2016
- *Astrolunch* seminar, University of Pittsburgh, invited talk, April 2016.
- *Local Group Astrostatistics*, University of Michigan, poster, June 2015.

- *Astrostatistics seminar*, Carnegie Mellon University, invited talk, Feb 2015.
- *Neighborhood Workshop in Astrophysics and Cosmology II*, Pennsylvania State University, contributed talk, April 2014.

HONORS AND AWARDS

- 2016 Thomas-Lain Fund Scholarship Award
- 2014 Best Speaker Award (shared w. Amanda Yoho out of 48 speakers), Neighborhood Workshop in Astrophysics and Cosmology, Pennsylvania State University
- 2008-12 LSU Golden Oak Scholarship

PROFESSIONAL EXPERIENCE

- Founder and coordinator of the weekly *Pitt-CMU Astrosnacks* seminars (2014-present).
- Student representative of 2016 Astrophysics Faculty Search Committee, University of Pittsburgh
- Participant, 2014 Summer School in Statistics for Astronomers, Pennsylvania State University
- Participant, 2014 Sci-Coder workshop, New York University

TEACHING EXPERIENCE

- April 2016: Guest lecturer, Galactic & Extra-galactic Astronomy, ASTRON 3580. (Instructor: C. Badenes).
- Sep-Dec, 2013: Teaching Assistant, Stars, Galaxies and Cosmos, ASTRON 89 (Instructor: M. Wood-Vasey)
- June-July 2013: Teaching Assistant, Stars, Galaxies and Cosmos, ASTRON 89 (Instructor: D. Turnshek)
- Jan-April 2013: Teaching Assistant, Basics of Space Flight, ASTRON 87 (Instructor: R. S. Ladbeck)
- Sep-Dec 2012: Teaching Assistant, Basic Physics for Science and Engineering I, PHYS 174 (Instructor: B. D'urso)
- Sep-Dec 2012: Grader, Physics and Society, PHYS 87, (Instructor: E. Gerjuoy)

OUTREACH

- Telescope operator & astrophysics presenter, 2016 White House Frontiers Conference Astronomy Night, Alleghany Observatory, Pittsburgh, PA.
- Presenter, April 2012 Open-house night, Landolt Astronomical Observatory, Baton Rouge, LA.

REFERENCES

Prof. Carles Badenes (University of Pittsburgh) - badenes@pitt.edu

Prof. Laura Chomiuk (Michigan State University) - chomiuk@pa.msu.edu

Prof. Damiano Caprioli (University of Chicago) - caprioli@uchicago.edu