

# Sumit K. Sarbadhicary – Curriculum Vitae

---

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

## EDUCATION

- 2014-present** PhD, Astronomy - University of Pittsburgh  
Advisors: Carles Badenes (Pitt) & 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

## PUBLICATION RECORD

**2 first-authored** (1 published + 1 in preparation) and **1 co-authored** (1 published) papers.

## SKILLS

- Statistical modeling of supernova remnants, stellar populations and ISM in Local Group galaxies.
- Radio data-reduction/image-making with Astronomical Image Processing System (AIPS)
- Numerical modeling with MESA (stellar evolution) and SDT (nuclear interactions)
- Machine learning with `scikit-learn` (clustering, mixture models).
- Programming: Python, C, Mathematica, R, AIPS, IDL

## TALKS/POSTERS

- *Developing the ngVLA Science Program Workshop*, Socorro, New Mexico, poster, 2017
- *FOE17: Fifty-One-Erg*, Oregon State University, contributed talk, 2017
- *Supernova Remnants on the Beach*, University of Santa Cruz, invited talk, 2017
- *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.

## 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

## HONORS AND AWARDS

- 2017 Andrew Mellon Pre-doctoral Fellowship
- 2016 Thomas-Lain Scholarship
- 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

## MENTORING

- Mairead Heger, undergraduate, University of Pittsburgh

## TEACHING

- 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

- 2017: Volunteer at *Investing Now*
- 2015-present: Organized career development seminars for astronomers at University of Pittsburgh
- 2016: Telescope operator/presenter at White House Frontiers Conference Astronomy Night, Alleghany Observatory, Pittsburgh, PA.
- 2012: Volunteer at open-house nights at Landolt Astronomical Observatory, Baton Rouge, LA.
- 2011: Presenter for high-school students at Louisiana Junior Science and Humanities Symposium, 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