

# Sumit K. Sarbadhicary – Curriculum Vitae

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## 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

## 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, MNRAS, 464, 2326.
2. Launey, K. D., **Sarbadhicary, S. K.**, Dytrych P., 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, 284

### To be submitted

1. **Sarbadhicary, S. K.**, Chomiuk L., Badenes C., Tremou, Evangelia, Soderberg, A. M., Sjouwerman L., *The two most recent thermonuclear supernovae in the Local Group: Radio constraints on the progenitors and evolution*, to be submitted to ApJ
2. **Sarbadhicary, S. K.**, Badenes C., Newman, J. M., & Heger M., *Putting stellar evolution to the test: The delay-time distribution of RR Lyrae*, 2017, in preparation
3. Huizenga, D., Chomiuk L., Badenes C. & **Sarbadhicary, S. K.**, *A VLA Radio-continuum selected survey of supernova remnants in the LMC*, 2017, to be submitted to ApJ

## 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 workshop*, University of California, 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, *SciCoder*, New York University,
- Participant, 2016, *Gas on top of Quasars*, University of Pittsburgh
- Participant, 2016, *Preparing for Supernova Science in the LSST Era*, University of Pittsburgh
- Participant, 2017, *Eta Carinae, LBV and Supernova Imposters*, University of Pittsburgh

## 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: Presenter at *Investing Now*, University of Pittsburgh
- 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. Enrico Ramirez-Ruiz** (University of California, Santa Cruz) - enrico@ucolick.org  
**Prof. Damiano Caprioli** (University of Chicago) - caprioli@uchicago.edu