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John K. Parejko

Research Interests

Active Galaxies and Galaxy Evolution, Large Scale Surveys, Astronomy Education and Outreach

Education

- 2010 **Ph.D. Physics (expected)**, Drexel University, Philadelphia, PA.
Adviser: Dr. Michael S. Vogeley
Thesis: “*The Clustering of Bona Fide Low Luminosity AGN in the Local Universe*”
- 2007 **M.S. Physics**, Drexel University, Philadelphia, PA.
- 2002 **B.A. Physics**, Carleton College, Northfield, MN - *Cum Laude*.
2001 Budapest Semester in Mathematics, Budapest, Hungary

Academic Employment

- 2002–2004 **Space Physics Research Lab**, University of Michigan, Ann Arbor, MI.
Software Development and Data Analysis, Cassini/Huygens INMS team
- Summer 2001 **Space Physics Research Lab**, University of Michigan, Ann Arbor, MI.
NSF Research Experience for Undergraduates, Cassini/Huygens CAPS team

Peer Reviewed Publications

Interacting void galaxies in the SDSS

Parejko, J., Vogeley, M. S., Pan, D., White, A. – In prep.

Galaxy Zoo Green Peas: discovery of a class of compact extremely star-forming galaxies

Cardamone, C., Schawinski, K., Sarzi, M., Bamford, S. P., Bennert, N., Urry, C. M., Lintott, C., Keel, W. C., **Parejko**, J., Nichol, R. C., Thomas, D., Andreescu, D., Murray, P., Raddick, M. J., Slosar, A., Szalay, A., & Vandenberg, J. 2009, MNRAS, 1256

Eight-Dimensional Mid-Infrared/Optical Bayesian Quasar Selection

Richards, G. T., Deo, R. P., Lacy, M., Myers, A. D., Nichol, R. C., Zakamska, N. L., Brunner, R. J., Brandt, W. N., Gray, A. G., **Parejko**, J. K., Ptak, A., Schneider, D. P., Storrie-Lombardi, L. J., & Szalay, A. S. 2009, AJ, 137, 3884

Source Matching in the SDSS and RASS: which Galaxies are Really X-Ray Sources?

Parejko, J. K., Constantin, A., Vogeley, M. S., & Hoyle, F. 2008, AJ, 135, 10

The Cassini Ion and Neutral Mass Spectrometer (INMS) Investigation

Waite, J. H., Lewis, W. S., Kasprzak, W. T., Anicich, V. G., Block, B. P., Cravens, T. E., Fletcher, G. G., Ip, W.-H., Luhmann, J. G., McNutt, R. L., Niemann, H. B., **Parejko**, J. K., Richards, J. E., Thorpe, R. L., Walter, E. M., & Yelle, R. V. 2004, Space Science Reviews, 114, 113

Awards

- 2008 **Chambliss Astronomy Student Poster**, *AAS 211th meeting*, Austin, TX.
Honorable Mention
- 2008 **International Science & Engineering Visualization Challenge**,
NSF/AAAS.
Semifinalist, Informational/Explanatory Graphics
- 2008 **Physics Graduate Student Award for Research and Service**, *Drexel University*, Philadelphia, PA.

Accepted Proposals and Grants

- 2009 **Chandra Deciphers the Optically 'Dull' X-ray Bright Galaxies at $z \sim 0$** ,
PI: Dr. Anca Constantin, Chandra Observing Proposal.
- 2008 **Investigating the Properties of Interacting Void Galaxies from the SDSS**, *PI: John Parejko*, NOAO Kitt Peak Observing Proposal.
- 2007 **The Relationship Between AGN Spectral Energy Distribution and Feedback**, *PI: Gordon Richards*, NASA ADP Grant.
- 2005-2008 **Urban Astronomy in Philadelphia: Hands-On Student Observing and Teacher Enhancement**, *PI: Dr. David Goldberg*, NASA 3 year OSS/EPO.

Posters and Presentations

- June 2009 **Interacting Void Galaxies in the SDSS**, *The Monster's Fiery Breath: Feedback in galaxies, groups and clusters*, Madison, WI.
- January 2009 **Hunting for Low Luminosity AGN Using Optical and X-ray Emission**,
213th AAS Meeting, Long Beach, CA.
- August 2008 **X-ray Emitting Galaxies in the SDSS**, *The Sloan Digital Sky Survey: From Asteroids to Cosmology*, Chicago, IL.
- January 2008 **The Soft X-ray Properties of "Ordinary" SDSS Galaxies**, *211th AAS Meeting*, Austin, TX.
- March 2007 **The X-ray Sources of "Ordinary" SDSS Galaxies**, *2007 SDSS Collaboration Meeting*, Drexel University, Philadelphia, PA.
- January 2007 **The Spectral Energy Distributions of Normal and Weakly-Active Galaxies**, *209th AAS Meeting*, Austin, TX.

Outreach

- 2004-2009 **Lynch Observatory**, *Drexel University*, Philadelphia, PA.
Open House Coordinator
<http://www.physics.drexel.edu/observatory/>

2005–2008 **Astronomy for Teachers**, *Drexel University*, Philadelphia, PA.
Seminar Series Instructor/Coordinator

2005–2008 **6th Grade Astronomers**, *Drexel University*, Philadelphia, PA.
Observatory Instructor/Coordinator

2000–2002 **Goodsell Observatory**, *Carleton College*, Northfield, MN.
Open House Assistant

Invited Public Talks

Feb 2008 **Delaware Valley Amateur Astronomers**, Plymouth Meeting, PA.
Invited Speaker - *Where Have All The Quasars Gone?*

May 2008 **Rittenhouse Amateur Astronomers**, Philadelphia, PA.
Invited Speaker - *Two Observatories (and a Robot)*

Service

2007-2009 **Physics Graduate Student Association**, *Drexel University*, Philadelphia, PA.
Co-founder, Co-chair and talk organizer
<http://www.physics.drexel.edu/~pgsa/>

Teaching

Drexel University

2008-2009 Astrophysics, Undergraduate Research Mentor

Fall 2005 Physics 232: *Observational Astrophysics*, Teaching Assistant

Summer 2005 Physics 211: *Applied Physics III*, Teaching Assistant

Spring 2005 Physics 131: *Survey of the Universe*, Teaching Assistant

Winter 2005 Physics 153: *Introductory Physics II*, Teaching Assistant

Fall 2004 Physics 131: *Survey of the Universe*, Teaching Assistant

Carleton College

Spring 2002 Astronomy 113: *Observational Astronomy*, Teaching Assistant

2001–2002 Math Skills Center, Math Tutor

References

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