

## ERIC W. PELLEGRINI, PhD

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Department of Physics and Astronomy

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### Education

2009. PhD in Astrophysics, Michigan State University. Adviser: Jack Baldwin.

2004. BS in Astronomy, Michigan State University.

### Research Positions

2012 – Present: Postdoctoral Researcher in collaboration with JD Smith, Department of Physics and Astronomy, University of Toledo

2009 – 2012: Postdoctoral Research Fellow in collaboration with Sally Oey, Department of Astronomy, University of Michigan

2004 – 2009: Graduate Research Assistant in collaboration with Jack Baldwin, Department of Physics & Astronomy, Michigan State University

2007: Scientific Support Staff, SOAR Telescope, La Serena, Chile/ Commissioning Optical Instruments

### Research Interests

- Molecular Gas excitation in nearby and distant galaxies
- The Content and Structure of Gas in Galaxies
- Theoretical/Observational Studies of Star Forming Regions
  - Feedback from Massive Stars
  - Ionized / Neutral / Molecular Interfaces
- Observational Signatures of Primordial Star-formation
- Chemical Enrichment / Escaping Radiation / Reionization

### Research Skills/Accomplishments

- Development of Standalone Herschel Space Telescope SPIRE-FTS Mapped observation pipeline
- Detailed, multi-wavelength photoionization modeling with CLOUDY plasma code.
- Over 60 nights on 4m and above class telescopes taking spatially resolved optical and NIR spectroscopy and narrow band imaging.

### Awards

2009: Sherwood K. Haynes *Outstanding Graduate Student Award*

2006: American Association of Physics Teachers (AAPT) Outstanding Teaching Assistant Award

### Service Activities

2013-2014: Discovery Channel Telescope Time allocation Committee

2007 – Present: Recurring public outreach program with elementary students with an observing session and lecture/Q&A session for 5<sup>th</sup> grade students at Murphy Elementary School, East Lansing, MI

2009 – Present: Referee for the Astrophysical Journal and Monthly Notices of the Royal Astronomical Society

2010 : Created an interactive, web-based interface for students and novice users of CLOUDY. Designed as a teaching tool, it was successfully tested with faculty members to first year graduate and advanced undergraduates students.

2010 – 2011: Magellan Time Allocation Committee

2009 – 2010: Thurston Elementary, Ann Arbor, MI development of 3<sup>rd</sup> grade Astronomy and Science lessons and labs to meet Michigan education standards.

2004-2009: Lead graduate student at Michigan State University Observatory Public Open Houses

2004 – 2009: Lead development of the remote operating system at Michigan State University to control the 4meter SOAR observatory located in Chile.

2005 – 2005: Elected President of CNS Deans Student Advisory Counsel

2004 – 2005: Campus variable star observing program, Campus Observatory, Michigan State University

2006: American Association of Physics Teachers (AAPT) *Outstanding Teaching Assistant Award*

### **Teaching Positions**

2010 : Guest Instructor/Lecturer, Physics of the Interstellar Medium (AST 535), University of Michigan, graduate level course

2009 – Present: Supervision and mentoring of graduate/undergraduate students with instruction on observational and theoretical techniques.

2006 – 2008: Teaching assistant, Observational Methods in Astronomy (AST 208), Michigan State University, majors course

2004 – 20005: Teaching assistant, Integrated Science Program, Visions of the Universe (ISP205) Lab, Michigan State University, non-majors course