Curriculum Vitae

Jason Melbourne

Graduate Student
UCO/Lick Observatory, University of California Santa Cruz, Santa Cruz, CA 95064
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Degrees

2006 Ph.D. Astronomy, University of California Santa Cruz (May 2006)
Thesis: *The Optical and Infrared Evolution of Blue Galaxies to* $z = 1$. (D. C. Koo, advisor)

2001 M.A. Astronomy, Wesleyan University
Thesis: *Metal Abundances in KISS Galaxies* (J. J. Salzer, advisor)

1995 B.A. Physics and Astronomy (double major), University of California Berkeley

Schools and Workshops

2005 The Center for Adaptive Optics Professional Development Workshop

2004 The Jerusalem Winter School: The Origin of Galaxies

2001 The Vatican Observatory Summer School: Compact Objects

Research Experience

(See Research Summary and Publication List for Details)

2001 – 2005 Graduate Student Researcher, University of California Santa Cruz
Emphasis on extragalactic observational astronomy across multi-wavelength including UV (STIS), optical (ACS), near IR (Lick and Keck Adaptive Optics), mid IR (*Spitzer* MIPS), and radio (Aricebo). Completed four first author papers (see Publications List), advisors: D. C. Koo, C. Max, S. Faber.

1999 – 2001 Graduate Student Researcher, Wesleyan University
Emphasis on spectroscopy of low-z emission line galaxies. Completed two first author papers (see Publications List), advisors: J. J. Salzer, A. Sarajedini.

1995 – 1996 Assistant Researcher, Lawrence Berkeley National Laboratory
The Supernova Cosmology Project, emphasis on optical photometry, advisor: Saul Perlmutter.

1992 – 1995 Undergraduate Researcher, University of California Berkeley
Narrow-band photometry of comets, advisor: H. Spinrad.

Successful Proposals

(In which J. Melbourne was primary contributer)

2005 Co-Investigator. Keck Laser Guide Star Adaptive Optics Imaging of Large Disk Galaxies in GOODS-S

2005 Co-Investigator. Keck Laser Guide Star Adaptive Optics Imaging of Chandra X-ray Sources in GOODS-S

2004 Co-Investigator. Keck Natural Guide Star Adaptive Optics Imaging of Galaxies in GEMS and COSMOS

2003 Principle-Investigator. Lick Laser Guide Star Adaptive Optics Imaging of Local Blue Compact Galaxies

Recent Talks

2005 *A Practical Guide to Adaptive Optics Observing on Keck.* The Center for Adaptive Optics Extragalacitic AO Workshop, UC Sanata Cruz, August 2005

2005 *Keck Laser Illuminates AGN in the Distant Universe.* American Astronomical Society Meeting 205, January 2005

2004 *Laser Illuminates Compact Galaxies.* Starbursts: From 30 Doradus to Lyman Break Galaxies, Cambridge, United Kingdom, September 2004

Teaching Experience

2005 Lead Instructor
Center for Adaptive Optics Mainland Short Course for Undergraduates

2003 Project Advisor
COSMOS, an Astronomy Summer Program for High School Students

1999 – 2002 Teaching Assistant
Undergraduate Astronomy Classes

1998 – 1999 Astronomy Teacher
Project Astro, Astronomy for Elementary School Classes

Students Advised

2005 Emily De La Garza, Center for Adaptive Optics Undergraduate summer intern *Stellar Population Synthesis Models of Synthetic Galaxies.* Emily won best poster for her research at the Society for Advancement of Chicanos/Latinos and Native Americans (SACNAS) annual science meeting, September 2005.

2004 Conswella White, Center for Adaptive Optics Undergraduate summer intern *Decomposing Adaptive Optics Images of Disk Galaxies.*

Professional Service

2005 Organized and Chaired the The Center for Adaptive Optics Extragalactic AO Workshop, University of California Santa Cruz, August 2005

2004 The Graduate Student Representative to the UCO/Lick Observatory Job Search Committee

2003 – 2004 UC Santa Cruz Astronomy Department, Graduate Student Spokesperson