

Micol Huw Christopher

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Education

Ph.D., Astrophysics, California Institute of Technology Advisor: Prof. Nicholas Z. Scoville Thesis project: <i>The Formation and Evolution of Massive Star Clusters in Merging/Interacting Systems</i>	June 2005 (expected)
B.A., Physics and Astronomy/Astrophysics (Summa Cum Laude) Harvard University	June 1999

Teaching/Public Outreach Experience

Tour Guide for Palomar Observatory , Caltech	2000-2003
Head Teaching Assistant: Undergraduate Introduction to Astronomy , Caltech	2001
Teaching Assistant: Graduate Courses in Interstellar Medium, Galaxies , Caltech	2000-2001
Teaching Assistant: Undergraduate Introduction to Astronomy , Caltech	2000
Teaching Assistant, Multivariable Calculus , Harvard	1999
Teaching Assistant, Multivariable Calculus & Linear Algebra for Physics , Harvard	1996-1998
Teaching Assistant, Introductory Physics , UNC-Wilmington	1996

Research Experience

Graduate Research Assistant, Caltech Advisor: Professor Nicholas Z. Scoville	1999–present
Research Experience for Undergraduates Program, Smithsonian Astrophysical Observatory Advisor: Dr. Philip C. Myers	1998
Summer Research Assistant, Harvard-Smithsonian Center for Astrophysics Advisor: Prof. Jonathan E. Grindlay	1997

Observing Experience

Keck Observatory, Hubble Space Telescope

Imaging and Spectroscopy of Young, Massive Star Clusters
Spectroscopy of Ultraluminous Infrared Galaxies

Owens Valley Radio Observatory Millimeter Array, VLA

HCN and HCO⁺ observations of Galactic Center
CO observations of interacting galaxies

Palomar Observatory 60-inch

Led public eyepiece observing sponsored by Reuben H. Fleet Science Center

Honors and Awards

Jack T. Sanderson Memorial Prize (Graduating Senior with Highest Physics GPA), Harvard	1999
Phi Beta Kappa Inductee, Harvard	1999
National Science Foundation Graduate Program, honorable mention	1999
Certificate of Distinction in Teaching (5-time recipient), Harvard	1997-1999
Joseph R. Levenson Teaching Prize (Nominated 2 times), Harvard	1997-1998
Detur Book Prize, Harvard	1996

Professional Development

- Two-day Workshop on “Improving the Introductory Astronomy Survey Course for Non-Science Majors Through Active Learning” - January 2005
- “Technology Resources for Introductory Astronomy Education” - January 2005

Refereed Publications

1. *HCN and HCO⁺ Observations of the Galactic Circumnuclear Disk*
Christopher, M. H., Scoville, N. Z., Stolovy, S. R., Yun, M. S. 2005, Accepted for ApJ for March 2005
2. *A Possible Brown Dwarf Companion to the White Dwarf GD 1400*
Farihi, J., **Christopher**, M. H. 2004, AJ, 128, 1868
3. *A Catalog of Young Stellar Groups and Clusters within 1 Kiloparsec of the Sun*
Porras, A., **Christopher**, M. H., Allen, L., Di Francesco, J., Megeath, T. S., Myers, P. C. 2003, AJ, 126, 1916
4. *Hubble Space Telescope Pa α and 1.9 μ m Imaging of Sagittarius A West*
Scoville, N. Z., Stolovy, S. R., Rieke, M., **Christopher**, M. H., Yusef-Zadeh, F. 2003, ApJ, 594, 294
5. *The Host Galaxies of Optically Bright Quasi-stellar Objects: Molecular Gas in $z \leq 0.1$ Palomar-Green Quasi-stellar Objects*
Scoville, N. Z., Frayer, D. T., Schinnerer, E., **Christopher**, M. H. 2003, ApJ, 585, L105

Invited and Contributed Talks

- Talk at “205th Meeting of the American Astronomical Society”, San Diego, CA, January 2005
- Poster at “The Formation and Evolution of Young Massive Star Clusters”, Cancun, Mexico, November 2003
- Poster at “Keck Science Meeting”, Pasadena, CA, October 2003
- Talk at “Keck Science Meeting”, Berkeley, CA, October 2002
- Two Posters at “Active Galactic Nuclei: from Central Engine to Host Galaxy”, Meudon, France, July 2002
- Lunch Talk, Caltech IR-Submm Group, Pasadena, CA, January 2002
- Poster at “Keck Science Meeting”, Pasadena, CA, October 2001
- Group Talk, OVRO Millimeter Array Group, Pasadena, CA, May 2001
- Poster Presentation at “197th Meeting of the American Astronomical Society”, San Diego, CA, January 2001
- Poster Presentation at “193rd Meeting of the American Astronomical Society”, Austin, TX, January 1999