Zoë E. Ames

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EDUCATION

Master of Science in Physics
San Francisco State University, San Francisco, CA　　　　　　May 2014
Thesis Title: "Searching for the Lowest Mass Products of Star-Formation in IC 348"

Bachelor of Arts
Smith College, Northampton, MA　　　　　　　　　　　　May 2009
Major: Astronomy and Physics (double major)

RESEARCH EXPERIENCE

San Francisco State University, San Francisco, CA　　October 2010 to May 2014
Position: Graduate Research Assistant
Advisers: Dr. Mary Barsony and Dr. Chris McCarthy
Project: Determining the abundance of dwarf planets in nearby star forming regions.

SETI Institute, Mountain View, CA　　　　　　　　　　Summer 2012
Position: Graduate Research Assistant
Advisers: Dr. Mary Barsony
Project: Obtain reliable IRAC photometry from the Spitzer Heritage Archive of all source in IC 348. This project continued for the next two years and is the basis of my Masters Thesis.

McDonald Observatory, Fort Davis, TX　　　　　　　　Summer 2008
Position: National Science Foundation Research Experience for Undergraduates student in Astronomy, NSF grant AST-0649128
Adviser: Dr. Stephen Odewahn
Projects: Spectroscopy of Very Isolated S0 Galaxies. Photometry and Morphology of Very Isolated S0 Galaxies. This project was continued as a special studies at Smith College during the 2008-2009 school year.

Lowell Observatory, Flagstaff, AZ　　　　　　　　　　Summer 2007
Position: National Science Foundation Research Experience for Undergraduates student in Astronomy, NSF grant AST-0453611
Adviser: Dr. Lisa Prato
Project: Searching for T Tauri Stars in the Aquila Rift. This project was continued as a special studies at Smith College during the 2007-2008 school year.

TEACHING AND TUTORING EXPERIENCE

StudyPoint Tutor　　　　　　　　　　　　　　October 2010 - Present
Location: San Francisco, CA
Responsibilities: Tutor students at their houses in SAT, ACT, PSAT, SSAT, Physics SAT II, or academic tutoring. Nominated twice for Most Valuable Tutor award.

PrepNowTutor　　　　　　　　　　　　　　　January 2012 - Present
Responsibilities: Tutor students online in SAT, ACT, PSAT, SSAT, Physics SAT II, or academic tutoring.

Graduate Teaching Associate　　　　　　　　　　　August 2010 - Present

Location: San Francisco State University
Responsibilities: Teach two sections of ASTR116: Introductory Astronomy Laboratory or PHYS 102: Introductory Physics for Non-Science Majors per semester. Create most of the course materials. Hold tutoring sessions and office hours for the lecture portion of the course.

Undergraduate Teaching Assistant   August 2006 - May 2009
Location: Smith College Astronomy Department
Responsibilities: Assisted teaching introductory astronomy courses. Oversee tutoring hours for students.

College Level Courses Taught

Term:	Course Title:	Institution:
Spring 2014	ASTR 116: Astronomy Laboratory (2 sections)	SFSU
Fall 2013	ASTR 116: Astronomy Laboratory (2 sections)	SFSU
Spring 2013	PHYS 102: Physics Laboratory (2 sections)	SFSU
Fall 2012	PHYS 102: Physics Laboratory (2 sections)	SFSU
Spring 2012	ASTR 116: Astronomy Laboratory (2 sections)	SFSU
Fall 2011	ASTR 116: Astronomy Laboratory (2 sections)	SFSU
Spring 2011	ASTR 116: Astronomy Laboratory (2 sections)	SFSU
Fall 2010	ASTR 116: Astronomy Laboratory	SFSU
Spring 2009	AST 113: Telescopes and Techniques	Smith College
Fall 2008	AST 102: Sky I: Time	Smith College
Spring 2008	AST 113: Telescopes and Techniques	Smith College
Fall 2007	AST 103: Sky II: Telescopes	Smith College
Spring 2007	AST 113: Telescopes and Techniques	Smith College
Fall 2006	AST 103: Sky II: Telescopes	Smith College

Astronomy Intern   Summer 2006
Location: Smith College Summer Science and Engineering Program
Responsibilities: Assisted in teaching a month long introductory astronomy course and a biology course geared towards high school girls.

CURRICULUM DEVELOPMENT EXPERIENCE

ASTR 116 Lab Manual Editor   August 2012-present
Location: San Francisco State University
Responsibilities: Edit and revise the existing lab manual for the introductory astronomy laboratory. Helped create eight new inquiry based labs that were implement in Fall 2013.

PHYS 102 Lab Manual Editor   January 2013-May 2013
Location: San Francisco State University
Responsibilities: Edited and revised the existing lab manual for the introductory physics laboratory for non-science majors.

Curriculum Developer, Galileo Learning
- Mars Explorers Curriculum   Summer 2013
  Developed and taught Mars based curriculum to 3rd to 7th graders. Topics include building battery powered Mars rovers complete with tools to help discover life on Mars.
- Space Challenger Curriculum   Summer 2012
  Developed and taught space based curriculum to 3rd to 7th graders. Topics include phases of the moon, astronomical phenomena, and building basic re-

fracting telescopes.

- Camp Galileo Curriculum   August 2011 to May 2012
Created activities and lessons for Kindergarteners and 3rd-5th graders explaining how the Golden Gate Bridge was built. This curriculum was used for two weeks at 27 different bay area locations.

CONFERENCE POSTERS

221th American Astronomical Society Meeting, #256.28   January 2013
Title: Searching for the Lowest Mass Products of Star-Formation in IC 348
Authors: Ames, Z., Barsony, M., Haisch, K. E., McCarthy, C., Marsh, K.

14th Annual SFSU COSE Student Project Showcase, #55 GP   May 2012
Title: Searching for the Lowest Mass Products of Star-Formation in IC 348
Authors: Ames, Z., Barsony, M., McCarthy, C.

26th Annual SFSU Graduate Research and Creative Works Showcase   April 2012
Title: Searching for the Lowest Mass Products of Star-Formation in IC 348
Authors: Ames, Z., Barsony, M.

120th Astronomical Society of the Pacific Meeting   September 2009
Title: The Next Generation of the Night Sky Network: A Searchable Nationwide Database of Astronomy Events
Authors: Z. Ames, M. Berendsen, V. White

213th American Astronomical Society Meeting, #418.16   January 2009
Title: Spectroscopy of Very Isolated S0 Galaxies
Authors: Z. Ames, G. Dunn, S. Odewahn

213th American Astronomical Society Meeting, #418.15   January 2009
Title: Photometry and Morphology of Very Isolated S0 Galaxies
Authors: G. Dunn, Z. Ames, S. Odewahn

211th American Astronomical Society Meeting, #62.33   January 2008
Title: Searching for T Tauri Stars in the Aquila Rift
Authors: Z. Ames and L. Prato

COMPUTER SKILLS

Proficient in: Mac, PC, and Linux operating systems, Word, PowerPoint, Excel, Outlook, Adobe Photoshop, IDL, IRAF, and LaTeX

Experience With: Python, HTML, Access, Flash, Dreamweaver, MIRA, MaxIm DL, and AutoStar