

Emily Marjorie MacPherson

emily.macpherson@yale.edu

EDUCATION

Mount Holyoke College, Bachelor of Arts, Astrophysics
Cape Cod Community College, Associate of Arts, Mathematics

PROFESSIONAL EXPERIENCE

YALE UNIVERSITY, Department of Astronomy, New Haven, CT Oct 2012 – Present

Research Scientist, SMARTS Data Manager, SMARTS Queue Manager

- Creates nightly schedule of observations for two meter-class telescopes located at the Cerro Tololo Inter-American Observatory in La Serena, Chile
- Daily quality control, reduction, distribution and analysis of scientific data – O/IR, Échelle Spectra
- Carries out photometry and light curve analysis in support of the [SMARTS Blazar](#) Research Group
- Copy Editor, Yale University Astronomy Department Newsletter, Spring 2014

EASTWARD HO! COUNTRY CLUB, Chatham, MA Apr 2005 - Present

Administrative Assistant, Technical Support

- Supported senior staff in preparing for and managing weddings and golf tournaments
- Created digital training tutorials for staff and members to introduce new technologies
- Developed club promotional materials including online advertisements and direct mailing campaigns
- Served as liaison between restaurant, pro-shop, and administrative club operations
- Integral in implementing online restaurant reservation system (Clubessential NetCaddy)
- Provided menu costing models and advocated for pricing consistency in restaurant operations
- Copyedited club newsletter, website, menus, memos, flyers and other printed materials

BALD PEAK COLONY CLUB, Moultonborough, NH May 2011 – Oct 2012

Front Desk Agent, Administrative & Technical Support

- Responsible for member reception, distribution of mail, room reservations (TAI), golf reservations (Foretees), dining reservations and bookkeeping assistance

UNIVERSITY OF FLORIDA, Gainesville, FL May 2009 – Jan 2010

Summer Research Intern, Department of Astronomy

- Analyzed and catalogued near-infrared images of the Orion B and Perseus molecular clouds in search of silhouette protoplanetary disks around young stellar objects
- Analyzed stellar spectra using IDL programming language and IRAF pipelines

MOUNT HOLYOKE COLLEGE, South Hadley, MA Sep 2007 – May 2009

Research/Teaching Assistant to Dr. Thomas Burbine, Jr.

- Operated observatory equipment including the Meade 8" LX200R telescopes
- Assisted students with basic astronomical tasks and questions
- Measured light curves of asteroids in order to determine revolutionary periods
- Exercised effective ways of communicating science to non-science majors

SKILLS

Proficient in: Microsoft Word, Excel with Macros, PowerPoint, Publisher, Gimp, Linux OS
Some Experience with: Interactive Data Language (IDL), IRAF, HTML, VB, Python
Fluent in: French

AWARDS

Rachel Fuller Brown Scholarship Recipient, Mount Holyoke College	2009 and 2010
Space Grant Recipient, Massachusetts Institute of Technology	2008 and 2009
Dean's List, Cape Cod Community College	2006 and 2007
Educational Foundation Scholarship Recipient, Cape Cod Community College	2007
Highest Scoring Female, Student Math League Contest, AMATYC.org	2006