

KATHERINE WYMAN

skills

- Object Oriented PHP
- LAMP Stack
- Laravel
- Javascript & JQuery
- Python
- MySQL
- HTML5 & CSS3
- Responsive Design
- WordPress
- D3
- Git

experience

Instructor/Developer - Women's Coding Collective

Boston, MA

2015-2017

- Provided online support for students in the following classes: PHP, JavaScript & JQuery, Wordpress Basics, CSS Basics, CSS Layouts and Positioning
- Blog design, Newsletter writing and editing, testing of web-based course quizzes, and other educational materials.

Teaching Assistant - Dynamic Web Applications

Harvard University, Cambridge, MA

2014-2017

- Weekly sessions of course material review and project troubleshooting for students. Provided guidance through an online forum and chat service.
- Graded student submissions, provided feedback and suggested improvements on code, interface, usability and errors for web apps written in PHP and Laravel.
- Course topics include: server configuration, version control with Git, MVC frameworks, databases and CRUD operations, RESTful routing, user authentication, and modern web development best practices.

Astrophysicist/Tech Support - Chandra X-ray Center

Harvard Smithsonian Center for Astrophysics, Cambridge, MA

2011-2015

- Database maintenance, in-house software writing and testing of web-based tools, web pages, and other deliverables. Provided customer support through help desk.
- Developed online registration system with private statistical interface.
- Re-designed Chandra X-ray Center websites with responsive design techniques and updated static lists of targets observed by Chandra with modern, interactive features.

Teaching Assistant - Astronomy

Wesleyan University, Middletown, CT & Sonoma State University, Rohnert Park, CA

2007-2011

- Introduced students to concepts of telescope design, instructed students on how to use astronomical equipment for public observing and data acquisition for research.
- Weekly office hours for review of lecture material and tutoring.
- Course topics include: the solar system, historical astronomical discoveries, the nature of the EM spectrum, astronomical observing, the expansion of the universe and the cosmos at large.

education

Master of Arts: Astronomy

Wesleyan University, Middletown, CT

May 2011

Thesis: *Probing Our Heliospheric History.* High-resolution optical spectroscopic analysis of Interstellar Medium absorption in the direction of the Sun's historical trajectory over the past 40 million years.

Bachelor of Science: Physics

Sonoma State University, Rohnert Park, CA

May 2009

Research Project: *Drifting Sub-Pulses in Radio Pulsars.* Fast Fourier Transform analysis of radio signals from pulsating neutron stars to further understand their interior structures.

awards

Chambliss Award:

American Astronomical Society award for excellence in graduate research. Received for Wesleyan thesis work.

publications

Probing Our Heliospheric

History: High-Resolution Observations of Sodium and Calcium Along the Solar Historical Trajectory.

arxiv.org/pdf/1307.2899.pdf

contact



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Costa Mesa, CA

references

Available upon request