



John (Jack) H. Madden

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Summary

Dedicated to the education of science literacy and personal growth in and beyond the classroom through technology, storytelling, and active learning. I inspire students to become lifelong learners and help them exceed the expectations they thought were out of reach all while expanding their understanding of the universe.

Teaching Experiences

Franklin and Marshall:

- Physics and astronomy tutor and lab assistant: 2011-2014
- Head Physics and Astronomy Tutor for newly established campus tutoring network: 2013-2014
- Preceptor for 2 semesters. Responsibilities included meeting with students, holding study sessions, creating assignments, lectures, and attending a weekly training session: 2013-2014

Courses taught:

FND149 Life on Mars, FND137 History of Space and Time - Preceptor

PHY223 Modern Physics, PHY 111/2 Fundamental Physics I/II - Lab assistant

AST100 Survey of Astronomy, AST121 Intro to Astrophysics - Lab assistant, office hours, reviews

Cornell:

- 3 semesters as a TA with 2 sections per week of ~15 students each. TA responsibilities included making homeworks, quizzes, and exams; holding office hours, and review sessions; and grading
- 1 semester as Head TA with added responsibility of coordinating meetings, scheduling, managing tasks of TAs, Blackboard™ management, and assisting professors
- Created an online archive with years of course material for reference by future TAs and Professors
- Created the current standard procedures and guidelines for the TA/Head TA role
- Created the currently used templates for exams, schedules, and TA assessments

Courses taught:

ASTRO1101 Introduction to Astronomy, ASTRO1102 Our Solar System - TA

ASTRO 3301 Exoplanets and Planetary Systems, ASTRO 6578 Planet Formation - Grader

Outreach:

- Ask an Astronomer, 4-H Career Explorations, Spark Talks, Museum in the Dark, numerous presentations to grade schools visiting Cornell

Relevant Awards and Honors

Branson and Edna B. Shelley Outstanding Teaching Assistant Award

Cornell 2016

For teaching excellence and service to the department.

Micheal J. Mumma Prize in Physics and Astronomy

F&M 2013

"for outstanding scholastic achievement, citizenship, community leadership and superior potential for future contributions to physics and/or astronomy."

Education

Ph.D. in Astronomy : Cornell University, Ithaca NY.

Advisor: Dr. Lisa Kaltenegger.

2014 - present

B.A. in Astrophysics : Franklin and Marshall College (F&M), Lancaster PA.

Advisor: Dr. Fronefield Crawford.

2010 - 2014