

DANIEL WYSOCKI

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EDUCATION

State University of New York at Oswego

B.S. in Physics

B.S. in Computer Science

Minor in Astronomy

Expected Date of Graduation:

May, 2015

AWARDS

Outstanding Astronomy Student, SUNY Oswego

2015

RESEARCH EXPERIENCE

Department of Physics & Astrophysics, University of Delhi, India

Summer 2014

Advisors: Dr. Sukanta Deb, Dr. Shashi M. Kanbur, and Dr. H. P. Singh

Topic: Morphology of the Large and Small Magellanic Clouds using fundamental mode Cepheids

Physics Department, SUNY Oswego, NY, USA

August 2013 – June 2014

Advisor: Dr. Shashi M. Kanbur

Topic: Principal Component Analysis of Cepheid variable stars

Graduate Institute of Astronomy, National Central University, Taiwan

Summer 2012

Advisors: Dr. Chow-Choong Ngeow and Dr. Shashi M. Kanbur

Topic: Template fitting of first-overtone Cepheid variable stars

WORK EXPERIENCE

Office of Learning Services

January 2012 – May 2012, January 2013 – present

Tutor

Oswego, NY

- Tutoring lower division physics, math, computer science, and astronomy courses to undergraduates at SUNY Oswego.

Dr. Scott Roby, Planetarium Director

June 2013 – July 2013

Development Assistant

Oswego, NY

- Worked as assistant to the Planetarium Director at SUNY Oswego to develop and design production, presentation, promotional, and logistical resources for the new planetarium opening in the Fall of 2013.

SOFTWARE PROJECTS

plotypus

<https://github.com/astroswego/plotypus>

- A Python library and command line utility for manipulating and plotting stellar lightcurves.

mini-java

<https://github.com/dwysocki/mini-java>

- A compiler for a non-trivial subset of Java, written in Clojure.

TALKS

Title: “Introduction to Git and GitHub”

Author: D. Wysocki

Video: <https://youtu.be/irZF1VYDHJA>

SUNY Oswego Computer Science Association, Oswego, NY

February 12, 2015

Title: “Morphology of the Large and Small Magellanic Clouds Using Fundamental Mode Cepheids”

Authors: D. Wysocki, S. Deb, S. M. Kanbur, H. P. Singh

Rochester Academy of Science Annual Fall Scientific Paper Session, Brockport, NY

November 15, 2014

Title: “Principal Component Analysis of Cepheid Variable Stars”

Authors: D. Wysocki, Z. Schrecengost, E. Bellinger, S. M. Kanbur, D. Sukanta, H. P. Singh

Joint Meeting of NYSSAPS and ASNY, Oswego, NY

April 26, 2014

Quest Physics, Oswego, NY

April 9, 2014

Rochester Symposium for Physics Students, Rochester, NY

April 5, 2014

Science Day, Oswego, NY

March 29, 2014

Syracuse Physics Undergraduate Research Day, Syracuse, NY

November 9, 2013

Title: “The Precession of Mercury’s Perihelion”

Authors: D. Wysocki, C. Ilie

Quest Physics, Oswego, NY

April 9, 2014

Title: “Template Fitting of First Overtone Cepheid Variable Stars”

Authors: D. Wysocki, S. M. Kanbur, C. Ngeow

Quest Global Laboratory, Oswego, NY

April 17, 2013

Title: “Galactic Morphology”

Authors: D. Wysocki, B. Barrett, T. Kane, S. M. Kanbur

Quest McNair, Oswego, NY

April 17, 2013

POSTER PRESENTATIONS

Summer Scholars Symposium, Oswego, NY

September 5, 2014

Title: “Morphology of the Large and Small Magellanic Clouds”

Authors: D. Wysocki, S. Deb, S. M. Kanbur, H. P. Singh

American Astronomical Society meeting, Boston, MA

June 3, 2014

Title: “Principal Component Analysis of Cepheid Variable Stars”

Authors: D. Wysocki, Z. Schrecengost, E. Bellinger, S. M. Kanbur, D. Sukanta, H. P. Singh

Summer Scholars Symposium, Oswego, NY

September, 2012

Title: “Light Curve Template for First-Overtone Cepheid Variable Stars”

Authors: D. Wysocki, C. Ngeow, S. M. Kanbur

TECHNICAL SKILLS

Languages

Python, Clojure, Common Lisp, Java, Bash, C, R, L^AT_EX, markdown, reST

Tools

Linux, Emacs, git

CLUBS AND ORGANIZATIONS

American Physical Society, Member

2011 – present

Sigma Xi, Associate Member

2014 – present

SUNY Oswego Astronomy Club, Member – President

2010 – present

SUNY Oswego Computer Science Association, Member

2013 – present