DANIEL WYSOCKI

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EDUCATION

State University of New York at Oswego
B.S. Physics & Computer Science, Astronomy Minor *May, 2015*

AWARDS

Outstanding Astronomy Minor Award, SUNY Oswego *2015*

Sigma Xi / ORSP Quest 2015 Award, 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
Grant: IUSSTF travel grant

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
Grant: NSF IIA award 1065093

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 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 https://github.com/dwysocki/

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.

Hidden Markov Music https://dwysocki.github.io/csc466/semester-paper/

A machine learning application for algorithmic music composition and analysis.

SELECTED TALKS

https://dwysocki.github.io/talks/

Quest 2015, Oswego, NY — *April 15, 2015*
Title: "Hidden Markov Music"
Author: *D. Wysocki*
Title: "The LMC/SMC Structure from Cepheid Variables"
Authors: *D. Wysocki, S. M. Kanbur, S. Deb, H. P. Singh*
Title: "Optimal Modeling of Variable Star Light Curves"
Authors: *D. Wysocki, E. Bellinger, S. M. Kanbur*

SUNY Undergraduate Research Conference Brockport, NY — *April 10, 2015*
Title: "Morphology of the Large Magellanic Cloud Using Classical Cepheids"
Authors: *D. Wysocki, S. M. Kanbur, S. Deb, H. P. Singh*

SUNY Oswego Computer Science Association, Oswego, NY — *February 12, 2015*
Title: "Introduction to Git and GitHub"
Author: *D. Wysocki*
Video: https://youtu.be/irZF1VYDHJA

RAS Annual Fall Scientific Paper Session, Brockport, NY — *November 15, 2014*
Title: "Morphology of the Large and Small Magellanic Clouds Using Fundamental Mode Cepheids"
Authors: *D. Wysocki, S. Deb, S. M. Kanbur, H. P. Singh*

Joint Meeting of NYSSAPS and ASNY, Oswego, NY — *April 26, 2014*
Title: "Principal Component Analysis of Cepheid Variable Stars"
Authors: *D. Wysocki, Z. Schrecengost, E. Bellinger, S. M. Kanbur, D. Sukanta, H. P. Singh*

Quest 2013, Oswego, NY — *April 17, 2013*
Title: "Template Fitting of First Overtone Cepheid Variable Stars"
Authors: *D. Wysocki, S. M. Kanbur, C. Ngeow*

POSTER PRESENTATIONS

https://dwysocki.github.io/posters/

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, IDL, LaTeX, markdown
Tools	Linux, Git, Emacs, Jekyll

CLUBS AND ORGANIZATIONS

Sigma Xi, Associate Member — *2014 – present*

American Physical Society, Member — *2011 – present*

Association for Computing Machinery, Member — *2015 – present*

SUNY Oswego Astronomy Club, President — *2013 – present*