

DANIEL WYSOCKI

☎ (845) 459 - 3141 ✉ dwysocki@oswego.edu 🌐 <https://dwysocki.github.io/>

EDUCATION

State University of New York at Oswego

B.S. Physics & Computer Science, Astronomy Minor

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

NASA's Jet Propulsion Laboratory

June 2015 – August 2015

Software Computing Systems Graduate Student I

Pasadena, CA

Worked on validating thermal models for the Cassini Solstice Mission.

Office of Learning Services, SUNY Oswego

2012 – 2015

Tutor

Oswego, NY

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

Dr. Scott Roby, Planetarium Director, SUNY Oswego

June 2013 – July 2013

Development Assistant

Oswego, NY

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/>

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- 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/>

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- 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, L ^A T _E X, markdown
Tools	Linux, Git, Emacs, Jekyll

CLUBS AND ORGANIZATIONS

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| Sigma Xi , Associate Member | <i>2014 – present</i> |
| American Physical Society , Member | <i>2011 – present</i> |
| Association for Computing Machinery , Member | <i>2015 – present</i> |
| SUNY Oswego Astronomy Club , President | <i>2013 – 2015</i> |