

# DANIEL WYSOCKI

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## EDUCATION

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**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

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**Outstanding Astronomy Student**, SUNY Oswego

2015

## RESEARCH EXPERIENCE

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**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

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**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

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<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.

## SELECTED TALKS

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

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Title: “Morphology of the Large Magellanic Cloud Using Classical Cepheids”

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

**SUNY Undergraduate Research Conference**

*April 10, 2015*

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*

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

<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

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**Languages** Python, Clojure, Common Lisp, Java, Bash, C, R, IDL, L<sup>A</sup>T<sub>E</sub>X, markdown

**Tools** Linux, Emacs, git

## CLUBS AND ORGANIZATIONS

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**American Physical Society**, Member

*2011 – present*

**Sigma Xi**, Associate Member

*2014 – present*

**SUNY Oswego Astronomy Club**, President

*2013 – present*

**SUNY Oswego Computer Science Association**, Member

*2013 – present*