

DANIEL WYSOCKI

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

EDUCATION

Rochester Institute of Technology
Ph.D. Astrophysical Sciences and Technology expected 2020

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*

Dr. Scott Roby, Planetarium Director, SUNY Oswego June 2013 – July 2013
Development Assistant *Oswego, NY*

SOFTWARE PROJECTS

plotypus <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. Schreengost, 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. Schreengost, 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 *2014 – present*
- American Physical Society**, Member *2011 – present*
- Association for Computing Machinery**, Member *2015 – present*
- SUNY Oswego Astronomy Club**, President *2013 – 2015*