

Nicholas W Kutsop

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238 Oak Tree Rd. Mountainside, New Jersey, 07092

Education:

Northern Arizona University

Department of Physics and Astronomy

B.S in Astronomy 12/2013

B.S in Physics 12/2013

Minor in Mathematics 12/2013

3.97/4.00 GPA

Graduated Suma Cum Laude

Research Positions:

- (6/2013 – 8/2013) Examining the efficiency and accuracy of the photometry of the IDL program PhAst
Mentors: Dr. Kenneth Mighell & Dr. Lori Allen
National Optical Astronomy Observatory
- (1/2013 – 12/2013) Observing the Uranian moons Titania and Oberon, at 18.3 microns as they are eclipsed to investigate thermal inertia values of the surface of these moons
Mentor: Dr. David E Trilling
Northern Arizona University
- (8/2012 – 8/2013) Studying and modeling laser light reflections in water off of various surfaces
Mentor: Dr. Mark James
Northern Arizona University
- (6/2012 – 8/2012) Calibrating the UV spectrometer aboard the Interface Region Imaging Spectrograph (IRIS) satellite
Mentor: Dr. Bart De Pontieu
Lockheed Martin Solar and Astrophysical Laboratory
- (9/2011 – 5/2012) Studying the relationship between crater ejecta sinuosity on Mars and the latitude of the crater to investigate subsurface volatiles
Mentor: Dr. Nadine G Barlow
Northern Arizona University

Professional Positions:

- (8/2013 – 12/2013) Teaching Assistant
AST 280 – Introduction to Astrophysics
Northern Arizona University
- (8/2012 – 1/2013) Teaching Assistant
PHY 161 – University Physics I
Northern Arizona University

Publications:

Kutsop, N., Mighell, K., Allen, L., Trueblood, M. and Crawford, R. 2014, 223rd American Astronomical Society Meeting, *Analysis of Photometric Efficiency and Accuracy of the IDL Procedure: PhAst*, Poster Presentation

Trueblood, M., Kutsop, N., and Bell, D. and Crawford, R. 2013, Minor Planet Electronic Circulars, June, Pg. 9, *2011 BT15*

Presentations:

Kutsop, N., Mighell, K., Allen, L., Trueblood, M. and Crawford, R. 2013, NAU Physics and Astronomy Undergraduate Research Symposium, *Analysis of Photometric Efficiency and Accuracy of the IDL Procedure: PhAst*, Oral Presentation

Kutsop, N. and Trilling, D. 2013, NAU CEFNS Undergraduate Research and Design Symposium (UGRADS), *Thermal Inertia of Uranian Satellites Surfaces*, Poster Presentation

Kutsop, N. and De Pontieu, B. 2012, NAU Physics and Astronomy Undergraduate Research Symposium, *Calibration of Interface Region Imaging Spectrograph (IRIS) Satellite Spectrograph*, Oral Presentation

Kutsop, N. and Barlow, N. 2012, NAU CEFNS Undergraduate Research and Design Symposium (UGRADS), *Lobateness of Martian Ejecta Craters Using Thermal Imaging*, Poster Presentation

Kutsop, N. and Barlow, N. 2012, Arizona/NASA Space Grant Undergraduate Research Internship Program 21st Statewide Symposium, *Lobateness of Martian Ejecta Craters Using Thermal Imaging*, Oral Presentation

Awards and Honors:

2013 - Northern Arizona University Gold Axe Award

2013 - NOAO REU

2013 - NAU Physics and Astronomy Chair's Scholar Award

2012 - IRIS Stanford/LMSAL Stipend

2012 - Vesto M Slipher Jr. Scholar Award

2012 - Follet's Bookstore Scholarship

2011 - NAU Physics and Astronomy Chair's Scholar Award

2011 - NASA Space Grant

Dean's List

Fall 2010 / Spring 2011 / Fall 2011 / Spring 2012 / Fall 2012 / Spring 2013 / Fall 2013

President's Scholarship for Non-Residents
\$28,000 for four years

Memberships, Societies, and Positions:

Sigma Pi Sigma

Society of Physics Students

(2012 – 2013) Vice President of NAU Chapter of the Society of Physics Students

Knights of Columbus

Founding Member of Knights of Columbus Chapter 7513

(2011 – 2012) Treasurer of Knights of Columbus Chapter 7513

National Society of Collegiate Students

Phi Kappa Phi

Stanford Summer Internship Special Events Committee