

Kathryn Gordon

4106 Grayson Place, Decatur, GA 30030

☎ (404) 403-5118 | ✉ kdhicks43@gmail.com

Education

Georgia State University

PH.D. IN ASTRONOMY

- Dissertation: Fundamental Properties of O and B Stars with Optical Interferometry

Atlanta, GA

Aug. 2011 - Aug. 2018

University of Arkansas

M.S. IN PHYSICS

- Thesis: Absolute Properties of Eclipsing Binary Star VZ Cep

Fayetteville, AR

Aug. 2005 - Aug. 2007

Guilford College

B.S. IN PHYSICS

- Thesis: Micro-variability in Post-AGB Stars

Greensboro, NC

Aug. 2001 - May 2005

Experience

Agnes Scott College

TEACHING POSTDOCTORAL ASSOCIATE

- Courses: The Solar System, Galaxies and Cosmology, Problem Solving for Physics, Intermediate Observational Techniques, Mathematical Methods for Physics and Engineering
- Taught introductory astronomy lecture and lab.
- Taught introductory calculus based physics lecture.

Decatur, GA

Aug. 2018 - present

Georgia State University

GRADUATE ASSISTANT

- Taught introductory astronomy lab, graded labs, gave lectures on lab
- Helped run observatory open houses.
- Conducted stellar astronomy research, used existing code and developed new codes to analyze data.

Atlanta, GA

Aug. 2011 - July 2018

Georgia State University

HARD LABOR CREEK OBSERVATORY FELLOW

- Scheduled and coordinated all open houses for the year, trained new students on equipment and helped with class observing projects.

Atlanta, GA

Oct. 2012 - Jan. 2017

Coastal Carolina University

LECTURER OF PHYSICS

- Courses: Science of the Physical World, Essentials of Physics I, Essentials of Physics II, General Physics II, Conceptual Astronomy Lab
- Instructor for introductory science courses for non-science majors and algebra and calculus based introductory physics courses. Co-instructor for introductory science course for science majors.
- Developed lecture material, homework, labs and exams and helped teach and coordinate co-requisite lab. Facilitated and answered questions during group problem solving sessions and labs.

Conway, SC

Aug. 2007 - May 2011

University of Arkansas

TEACHING ASSISTANT

- Taught introductory astronomy lab, created quizzes, graded labs, gave lecture on lab, and helped students.

Fayetteville, AR

Aug. 2005 - May 2007

SARA REU, East Tennessee State University

RESEARCH ASSISTANT

- Research: Variability in Post-AGB Stars
- Calibrated and reduced raw CCD images, creating light curves, and analyzed data.
- Gave poster and power-point presentation on results.

Johnson City, TN

Summer of 2004

Guilford College

OBSERVATORY ASSISTANT

- Held open houses for the public once a month.
- Operated and maintained the school's 16-inch telescope and CCD camera.

Greensboro, NC

Aug. 2003 - May 2005

Presentations & Posters

2019 CHARA Science Meeting

ANGULAR DIAMETERS AND EFFECTIVE TEMPERATURES OF B STARS - RESULTS!

Flagstaff, AZ

March 2019

2018 CHARA Instrumentation and Science Meeting

ANGULAR DIAMETERS AND EFFECTIVE TEMPERATURES OF O- AND B-TYPE STARS

Paris, France

March 2018

CHARA Science Meeting

FUNDAMENTAL PROPERTIES OF O- AND B-TYPE STARS

Pasadena, CA

March 2017

CHARA Year Eleven Science Review

FUNDAMENTAL PROPERTIES OF O- AND B-TYPE STARS

Atlanta, GA

March 2015

IAU 307: New Windows on Massive Stars

FUNDAMENTAL PROPERTIES OF O- AND B-TYPE STARS

Geneva, Switzerland

June 2014

VLTI School: High angular resolution for stellar astrophysics

FUNDAMENTAL PROPERTIES OF O- AND B-TYPE STARS

Barcelonnette, France

Sep. 2013

CHARA/NPOI Collaboration Meeting

FUNDAMENTAL PROPERTIES OF O- AND B-TYPE STARS

Flagstaff, AZ

March 2013

Publications

- Gordon, K. D., Gies, D. R., Schaefer, G. H., Huber, D., & Ireland, M. 2019, ApJ, 873, 91
- Gordon, K. D., Gies, D. R., Schaefer, G. H., et al. 2018, ApJ, 869, 37
- White, T.R., Pope, B.J.S., Antoci, V., et al. 2017, Beyond the Kepler/K2 bright limit: variability in the seven brightest members of the Pleiades, MNRAS, 471, 2882
- Richardson, N.D., Shenar, T., Roy-Loubier, O., et al. 2016, The CHARA Array resolves the long-period Wolf-Rayet binaries WR 137 and WR 138, MNRAS, 461, 4115
- Richardson, N.D., Moffat, A.F.J., Maltais-Tarant, R., et al. 2016, Spectroscopy, MOST photometry, and interferometry of MWC 314: is it an LBV or an interacting binary?, MNRAS, 455, 244
- Gordon, K., Gies, D., & Schaefer, G. 2015, Angular Diameters of O- and B-type Stars, New Windows on Massive Stars, 307, 293
- Richardson, N.D., Moffat, A.F.J., Maltais-Tarant, R., et al. 2014, MWC 314: binary results from optical interferometry compared with spectroscopy and photometry, in Proc. SPIE, 9146, 91460G

Honors & Awards

INTERNATIONAL

2013 **Travel Grant**, IAU 307: New Windows on Massive Stars

Geneva,

Switzerland

2013 **Travel Grant**, Fizeau exchange visitors program to attend the VLTI School

Barcelonnette,

France

DOMESTIC

2013-2018 **NASA Georgia Space Grant Fellowship**, Georgia State University
2005 **Departmental Honors**, Physics Department, Guilford College
2005 **Academic Honors**, Guilford College
2003 **Sigma Pi Sigma**, National Physics Honor Society

Atlanta, GA
Greensboro, NC
Greensboro, NC
Greensboro, NC

Skills

Programming MATLAB, IDL, IRAF, LitPro, MaxImDL, CCDOPS, \LaTeX
Operating Systems Windows, Macintosh, Linux
Observational Interferometry, differential photometry, spectroscopy