Kathryn **Gordon**

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Education

Georgia State University — *Atlanta, GA*

PH.D. IN ASTRONOMY — *Aug. 2011 - Aug. 2018*

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

University of Arkansas — *Fayetteville, AR*

M.S. IN PHYSICS — *Aug. 2005 - Aug. 2007*

- Thesis: Absolute Properties of Eclipsing Binary Star VZ Cep

Guilford College — *Greensboro, NC*

B.S. IN PHYSICS — *Aug. 2001 - May 2005*

- Thesis: Micro-variability in Post-AGB Stars

Experience

Agnes Scott College — *Decatur, GA*

TEACHING POSTDOCTORAL ASSOCIATE — *Aug. 2018 - present*

- Courses taught: The Solar System, Galaxies and Cosmology, Problem Solving for Physics, Intermediate Observational Techniques, Mathematical Methods for Physics and Engineering, Introductory Physics I, Modern Physics, (Planned for Spring 2021 Introductory Physics II, Introduction to General Relativity)
- Developed lecture material, homework, labs and exams.
- Emphasized team-based and active learning inside and outside of the classroom.
- Guided students in independent work during the semester on ongoing research in optical interferometry.
- Mentored summer research students and guided independent projects based on astronomical observation and data analysis.

Georgia State University — *Atlanta, GA*

GRADUATE ASSISTANT — *Aug. 2011 - July 2018*

- 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.

Georgia State University — *Atlanta, GA*

HARD LABOR CREEK OBSERVATORY FELLOW — *Oct. 2012 - Jan. 2017*

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

Coastal Carolina University — *Conway, SC*

LECTURER OF PHYSICS — *Aug. 2007 - May 2011*

- Courses taught: 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.

University of Arkansas — *Fayetteville, AR*

TEACHING ASSISTANT — *Aug. 2005 - May 2007*

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

SARA REU, East Tennessee State University — *Johnson City, TN*

RESEARCH ASSISTANT — *Summer of 2004*

- 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.

Guilford College — *Greensboro, NC*

OBSERVATORY ASSISTANT — *Aug. 2003 - May 2005*

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

Presentations & Posters

2019 CHARA Science Meeting — *Flagstaff, AZ*
Angular Diameters and Effective Temperatures of B stars - Results! — *March 2019*

2018 CHARA Instrumentation and Science Meeting — *Paris, France*
Angular Diameters and Effective Temperatures of O- and B-type Stars — *March 2018*

CHARA Science Meeting — *Pasadena, CA*
Fundamental Properties of O- and B-type Stars — *March 2017*

CHARA Year Eleven Science Review — *Atlanta, GA*
Fundamental Properties of O- and B-type Stars — *March 2015*

IAU 307: New Windows on Massive Stars — *Geneva, Switzerland*
Fundamental Properties of O- and B-type Stars — *June 2014*

VLTI School: High angular resolution for stellar astrophysics — *Barcelonnette, France*
Fundamental Properties of O- and B-type Stars — *Sep. 2013*

CHARA/NPOI Collaboration Meeting — *Flagstaff, AZ*
Fundamental Properties of O- and B-type Stars — *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-Tariant, 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-Tariant, R., et al. 2014, MWC 314: binary results from optical interferometry compared with spectroscopy and photometry, in Proc. SPIE, 9146, 91460G

Honors & Awards

International

2020 **AAS International Travel Grant**, IAU 361: Massive Stars Near and Far (postponed due to COVID-19) — *Ballyconnell, Ireland*

2020 **IAU Travel Grant**, IAU 361: Massive Stars Near and Far (postponed due to COVID-19) — *Ballyconnell, Ireland*

2013 **IAU 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 Fellowhip,** Georgia State University	*Atlanta, GA*
2005	**Departmental Honors,** Physics Department, Guilford College	*Greensboro, NC*
2005	**Academic Honors,** Guilford College	*Greensboro, NC*
2003	**Sigma Pi Sigma,** National Physics Honor Society	*Greensboro, NC*

Skills

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