

Hollis Akins

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hollisakins

Education

- Aug 2018 – **Grinnell College, Dean's Scholar**, Grinnell, IA.
Present B.A. Physics, expected graduation May 2022
Coursework: modern physics, differential equations, archaeoastronomy, and video production
Recipient of the Dean's Scholarship (\$25,000/year) and National Merit Scholarship (\$2,000/year)
- Aug 2014 – **The Early College at Guilford**, Greensboro, NC.
May 2018 Public high-school dual-enrollment program with Guilford College
GPA: 3.96/4.00 Dean's List: 4/4 Semesters
Coursework: introductory physics, computational physics, multivariable calculus, geographic information systems, experience design, observational astronomy, and studio art

Experience

- Dec 2018 – **Student Mentor**, *Grinnell College Data Analysis and Social Inquiry Lab (DASIL)*, Grinnell, IA.
Present Trained and instructed peers in data analysis software such as ArcGIS, Python, and Excel
Prepared Geographic Information Systems (GIS) data and visualizations for faculty and students as needed
- Aug 2018 – **Staff Member**, *Spencer Grill*, Grinnell, IA.
Dec 2018 Assisted supervisors with food and beverage preparation and customer service.
- May 2018 – **Research Assistant**, *Guilford College Cline Observatory*, Greensboro, NC.
Aug 2018 Developed an automated data analysis pipeline and scripted observer system for the Cline Observatory
This system facilitates current and future student research on variable stars, stellar evolution, instrumentation, and more
For more information and details, see www.hollisakins.com
- Aug 2017 – **Teaching Assistant**, *Guilford College Art Dept.*, Greensboro, NC.
Dec 2017 Instructed students in the introductory darkroom photography class at Guilford College
Conducted class demonstrations, mentored students individually, provided feedback on work, and maintained the cleanliness and function of the photography lab facilities
- Dec 2017 – **Barista**, *Starbucks Coffee Company*, Greensboro, NC.
Apr 2018 Prepared food and beverages, maintained store cleanliness, and satisfied customer needs
- Aug 2016 – **Office Assistant**, *Harris Teeter Supermarkets*, Greensboro, NC.
Apr 2018 Assisted managers in supervising front-end operations by counting and handling the cash in the store, performing daily bookkeeping tasks, working at the customer service desk, and cashiering as needed

Selected Projects & Publications

- May 2018 **First Author**, *Imaging planets from imaginary worlds*.
Co-authored a paper with Guilford College Professor Don Smith on the pedagogical power of the Lucky Imaging technique for photographing planets, published in the October 2018 issue of *The Physics Teacher*
Presented on this topic at the Guilford Undergraduate Symposium in April 2018
See the article at <https://doi.org/10.1119/1.5055339>.
- Mar 2018 **Honorable Mention**, *SIAM Mathworks Math Modeling Challenge*.
Participated, along with five group members, in the 14 hour-long national math modeling competition
Developed a model to address several key issues surrounding food insecurity and food waste in the U.S.
See the final paper at www.hollisakins.com

Skills

- Computer Proficient in Python, \LaTeX , MacOS, and Adobe Photoshop, Illustrator, InDesign, and Premiere. Intermediate experience with Linux, Vim, HTML5/CSS3, Excel, and ArcGIS. Some experience with R.

* References available upon request