

# Hollis Akins

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## Education

- fall 2018– **Grinnell College, Dean's Scholar**, Grinnell, IA.  
Intended Physics major, expected graduation May 2022. Current coursework includes modern physics, differential equations, and video production. Planned coursework for Spring 2019 includes mechanics, general relativity, linear algebra, sociology, and applied geographic information systems.
- 2014–2018 **The Early College at Guilford**, Greensboro, NC.  
Public high-school dual-enrollment program with Guilford College. Coursework included a three-semester introductory physics sequence, computational physics, multivariable calculus, geographic information systems, experience design, observational astronomy, and several semesters of studio art.

## Experience

- fall 2018– **Staff Member, Spencer Grill**, Grinnell, IA.  
Helped with food and beverage preparation and customer service.
- summer 2018 **Research Assistant, Guilford College Cline Observatory**, Greensboro, NC.  
Worked with Professor Don Smith at Guilford College to develop an automated data analysis / photometry pipeline and scripted observer system for the permanently mounted 16-inch telescope at the Cline Observatory. This system facilitates current and future student research on variable stars, stellar evolution, the accuracy and precision of our facility, and more. For more information and details, see [www.hollisakins.com](http://www.hollisakins.com).
- fall 2017 **Teaching Assistant, Guilford College Art Dept.**, Greensboro, NC.  
Served as a teaching assistant for the introductory darkroom photography class at Guilford College  
Primary duties included conducting class demonstrations, helping students with their work outside of class, and maintaining the cleanliness and function of the photography lab facilities
- 2017–2018 **Barista, Starbucks Coffee Company**, Greensboro, NC.  
Worked as a certified Starbucks Barista preparing food and beverages, maintaining store cleanliness, and satisfying customer needs
- 2016–2018 **Office Assistant, Harris Teeter Supermarkets**, Greensboro, NC.  
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 & Awards

- may 2018 Co-wrote a paper with Don Smith at Guilford College on the pedagogical power of the Lucky Imaging technique for photographing planets, published in the October 2018 issue of *The Physics Teacher*. This project began as a presentation for the Guilford Undergraduate Symposium in April 2018 and was modified for publication. See the article at <https://doi.org/10.1119/1.5055339>.
- 2018–2019 Recipient of the Dean's Scholarship and National Merit Scholarship at Grinnell College
- march 2018 Honorable Mention in the SIAM Mathworks Math Modelling Challenge

## Skills

- computer Proficient in Python, L<sup>A</sup>T<sub>E</sub>X, MacOS, and Adobe Photoshop, Illustrator, InDesign, and Premiere. Intermediate experience with HTML5/CSS3, Excel, and ArcGIS. Some experience with R.
- personal I am a detail-oriented independent learner, able to adapt quickly to new situations. I am responsible, disciplined, and reliable, and work well under pressure.
- interpersonal I work well on a team, working with other's ideas as well as contributing my own. I am able to communicate clearly, effectively, and helpfully with others.

\* References available upon request