

# Hollis Akins

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## 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

- Aug 2018 – **Staff Member, Spencer Grill**, Grinnell, IA.  
Present 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](http://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](http://www.hollisakins.com)

## 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 Linux, Vim, HTML5/CSS3, Excel, and ArcGIS. Some experience with R.