

Hollis Akins

Box 3039, 1115 8th Ave
Grinnell, IA 50112
(336) 681-8118
hollis.akins@gmail.com
www.hollisakins.com
hollisakins

Education

- Aug 2018 – **Grinnell College, Dean's Scholar**, Grinnell, IA.
Present B.A. Physics, expected graduation May 2022 GPA: 4.00/4.00
Recipient of the Dean's Scholarship (\$25,000/year) and National Merit Scholarship (\$2,000/year)
Coursework: modern physics, differential equations, archaeoastronomy, linear algebra, mechanics, general relativity
- 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
Coursework: introductory physics, computational physics, multivariable calculus, geographic information systems, experience design, observational astronomy, and studio art

Work Experience

- February 2019 – **Science Editor**, *Grinnell Undergraduate Research Journal*, Grinnell, IA.
Present Selected and provided feedback on science submissions for the 2019 journal publication
Utilized Open Journal Systems to organize the peer-review process for student scientific papers
- 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
- 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

Extracurricular Experience

- Oct 2018 – **Co-Founder**, *Grinnell Astronomy Group*.
Present Led meetings

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