# ASA STAHL

Astrophysicist, Award-winning Author, and Science Communicator
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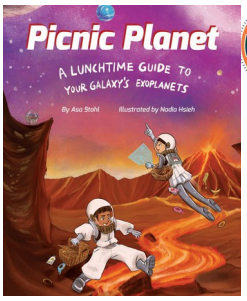
## PUBLISHED BOOKS




Picnic Planet: A Lunchtime Guide to Your Galaxy's Exoplanets
Creston Books, Fall List 2023

"Wonderfully clever" - Booklist Starred Review
*(Awards announced Spring 2024)*


The Big Bang Book
Creston Books, Spring List 2020

+ Outstanding Science Trade Book 2021(NSTA-CBC[1])
+ Children's And Young Adults' Book Awards Honor (ILA[2])
+ Ezra Jack Keats Award Honoree
+ Sakura Medal Finalist

[1]*National Science Teacher's Association – Children's Book Council*
[2]*International Library Association*

## SCHOLARSHIP

PhD Thesis

+ **Stahl, A. G.** (2023). Characterizing Young Stellar Systems and their Suitability for Radial Velocity-Driven Exoplanet Detection [Doctoral dissertation, Rice University]. Rice University Digital Scholarship Archive. scholarship.rice.edu/handle/1911/115074.

## Journal Publications

+ Tang, S.Y., **Stahl, A. G.**, et al. (2023). Star-Crossed Lovers DI Tau A and B: Orbit Characterization and Physical Properties Determination. The Astrophysical Journal, 950, 92.
+ **Stahl, A. G.**, et al. (2022). Follow-up of Young Stars Identified with BANYAN Sigma: New Low Mass Members of Nearby Moving Group. *The Astrophysical Journal*, 941, 101.
+ **Stahl, A. G.**, et al. (2021). IGRINS RV: A Precision RV Pipeline for IGRINS Using Modified Forward-Modeling in the Near-Infrared. *The Astronomical Journal,* 161, 283.
+ Mann, A.W., Wood, M.L., [et al., including **Stahl, A. G.**] (2021). TESS Hunt for Young and Maturing Exoplanets (THYME) VI: an 11 Myr giant planet transiting a very low-mass star in Lower Centaurus Crux. *The Astronomical Journal,* 163, 156.
+ Tang, S.Y., **Stahl, A. G.**, et al. (2021). IGRINS RV: A Python Package for Precision Radial Velocities with Near-Infrared Spectra. *The Journal of Open Source Software*, 6(62), 3095.

## SCIENCE COMMUNICATION

**Freelance Writer | Various Publications** October 2019 – present
+ Contributed weekly articles on astrophysics and space exploration news for the Houston Chronicle
+ Wrote multimedia stories on the Solar System and NASA missions for Google Arts & Culture
+ Published two astronomy trade children's books with Creston Books
+ Bylines in Sky & Telescope, APS News, and shelf-awareness.com
+ Covered over 40 stories to date

**AAAS Mass Media Fellow | Science News** June – August 2022
Washington, DC
+ Wrote articles on topics ranging from gravitational waves to dead spider robots
+ Reported short and long-form news, profiles of scientists, and historical retrospectives
+ Collaborated with digital team to write scripts for Tiktok and Youtube videos
+ Pitched dozens of stories, interviewed over 40 scientists, fact-checked other authors' pieces

**Co-chair | Communicating Science Conference (ComSciCon)** 2021 – 2022
**Treasurer |** 2018 – 2021
+ Planned professional development conferences for graduate student science communicators
+ Solicited tens of thousands of dollars in funds from private and public institutions
+ Designed conference programming and recruited speakers from around the country
+ Widened attendee population to draw from 10 different Texas universities
+ Handled logistics of conferences such as food, lodging, rental equipment, and transportation

**Writing Instructor | Rice University** August – December 2021
Houston, TX
+ Proposed, designed, and taught writing course *Shaping the Future: Dilemmas of Science and Society*

**Freelance Editor | Self-Employed** June 2009 – August 2014
Berkeley, CA
+ Edited middle-grade novels; acknowledged in 4 books, including a dedication

## Selected Articles

Megatooth sharks may have been higher on the food chain than any ocean animal ever
*Science News*, June 29, 2022

SN10 Profile: Carlos Arguelles hunts for particles beyond the standard model
*Science News*, September 29, 2022

The Solar System's Predicted Past and Ultimate Future
*Google Arts & Culture*, September 13, 2022

This Week in Space: How To Deflect An Asteroid with a SpaceX Rocket
*chron.com*, July 7, 2021

The True Nature of the Candidate ET Signal From Proxima Centauri
*Sky & Telescope*, October 28, 2021

Full list of published science communication content is available here.

## EDUCATION

**PhD, Astrophysics | Rice University** 2017 – 2023
Houston, TX
+ Searched for planets around young stars to use as windows into planet formation
+ Helped discover one newborn planet and disprove another, PI on 10 successful telescope proposals
+ Teacher Assistant for observational astronomy labs, intro physics labs, and stellar physics course
+ William and Elva Gordon Fellowship award for academic and research achievement
+ Kevin E. Strecker Award for outstanding research
+ Faculty Initiatives Fund award

**BS, Physics | Johns Hopkins University** 2013 – 2017
Baltimore, MD
+ Isolated the possible ionization sources of Low Ionization Nuclear Emission Region galaxies
+ Provost's Undergraduate Research Award

## SERVICE

**Volunteer | Various (Italy)** June – August 2023
+ Assisted family-run vineyards, farms, and lodges recovering from pandemic

**Manager | Valhalla** 2019 – 2021
+ Managed non-profit graduate student bar and historic institution with 100+ employees
+ Oversaw hiring decisions and cultural shifts to foster a more inclusive space regardless of race, sex, school, or affiliation with Rice (e.g. custodians versus lab technicians)
+ Administered finances, oversaw purchases, planned social and cultural events
+ Maintained solvency throughout year-long pandemic closure despite zero income

**Co-founder, Vice President | JHU Flash Seminars** 2014 – 2017
+ Organized dozens of informal STEM seminars to connect students with faculty across disciplines

## SELECTED PRESENTATIONS

+ *The Big Bang Book* Reading and Q&A, Westbury Methodist Day School, April 5, 2022

+ *IGRINS RV: An Open-Source Python Pipeline for Precision Near-Infrared RVs*, Emerging Researchers in Exoplanet Science, May 25, 2021 (virtual)
+ *The Big Bang Book* Reading and Q&A, Lafayette Library, March 10, 2021 (virtual)
+ *The Big Bang Book* Reading and Q&A, Chiyoda International School Tokyo, September 11, 2020 (virtual)
+ *Discovering Young Stars and Planets,* McDonald Observatory, November 19, 2019
+ *Detecting Planets Around Young Suns,* Science in a Flash, Rice University, November 2, 2018