ASA STAHL

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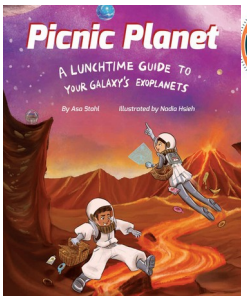
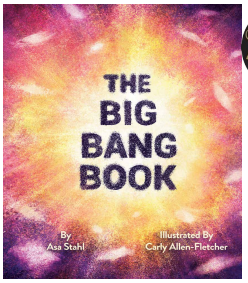
PUBLISHED BOOKS



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

"Wonderfully clever" - Booklist Starred Review



[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., Johns-Krull, C.M., [et al., including **Stahl, A. G**] (2024). Measuring the Spot Variability of T Tauri Stars Using Near-IR Atomic Fe and Molecular OH Lines. The Astrophysical Journal.
+ 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

Science Editor | The Planetary Society January 2024 – Present

+ With CEO Bill Nye, write and star in social media science videos, receiving 12M+ views in 2024 alone
+ Join the Planetary Radio podcast regularly to translate space topics for 1M+ monthly listeners
+ Develop and host online astronomy courses for digital community of over 17K paying members
+ Write articles on space science and exploration for print and web, averaging 250K+ reads/year
+ Collaborate with leading scientists and NASA experts on new video and written content

Freelance Writer | Various Publications October 2019 – 2024

+ 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

+ 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

Writing Instructor | Rice University August – December 2021

Houston, TX

+ Proposed, designed, and taught writing course *Shaping the Future: Dilemmas of Science and Society*

Selected Articles

Exploration on autopilot
The Planetary Society, March 10, 2025

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

Taking the "childlike" out of childike wonder
APS News, January 12, 2023

More published science communication content is available here and here.

Selected Videos

Should Pluto be a planet?
Instagram, August 24, 2024

Mean Girls
TikTok, July 26, 2024

Where are the aliens?
YouTube, February 6, 2025

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

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