

# JENNIFER SIEBEN

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## EDUCATION

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Indiana University, Ph.D., Astronomy  
Illinois Wesleyan University, B.A., Physics

December 2022  
May 2016

## SCIENCE WRITING AND ASTRONOMY OUTREACH

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**Associate Editor, *Physics Today*** 2023—2025  
Wrote and edited articles of various lengths for print and online. Subjects included recent research news, educational developments, and topic-specific articles, all related to physics. Also led the revitalization of *Physics Today*'s social media presence, launching on LinkedIn, Instagram, and Bluesky.

**SciU blog** – <https://sciu.indiana.edu/> 2016—2022  
A graduate-student run, peer-edited science blog which publishes weekly articles covering science news, ongoing research, and interviews with IU professors. Member for 6 years, co-Editor-at-Large for 4 years.

**Astronomy Public Outreach**, Indiana and Illinois Wesleyan Universities 2014—2022  
Led public observing tours at campus observatories, led astronomy sessions at local public school events, volunteered at campus wide Science Fest (IU), organized lunar eclipse party attended by ~100 people (IWU), served as department outreach coordinator for 2 years (IU), revitalised IU Astro twitter account.

**“COLL-X 311: Science Communication in a Digital Age”** 2020  
Designed and co-taught an online class covering how to evaluate audience, plan a scicomm post, how to edit a post, how to find or create relevant graphics, and how to promote it on social media. As part of this, I wrote and recorded video lectures and evaluated student assignments. Students all created a blog post with associated social media and some have gone on to be published on SciU.

**“AST-A 107: The Art of Astronomy: Images of the Universe”** 2018, 2021  
Taught an online course focused on astrophotography and how to use artistic principles to convey scientific data. Teaching included updating course materials, filming tutorials, and assessing the understanding of the students.

**Intern at Adler Planetarium** Summers 2013, 2015, 2016, Spring 2017  
Led public tours at Adler Planetarium's Doane Observatory with solar observing and monthly nighttime observing sessions accompanied by short presentations about astronomy. Also assisted in the Space Visualization Lab.

## RESEARCH EXPERIENCE

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Graduate Research Assistant, Indiana University 2016—2022  
Advisor: John Salzer  
Survey with the WIYN 3.5m telescope to determine the star formation of galaxies across cosmic time using photometric and spectroscopic data. This survey uses broad and narrowband filters to discover faint point-like sources.

Undergraduate Research Assistant, Illinois Wesleyan University Summer 2014  
Advisor: Linda French  
Observations of Trojan asteroids with the Cerro Tololo 0.9m telescope to determine rotation periods in order to discover a spin barrier and a limit of the density for comparison with cometary nuclei.

## PROFESSIONAL SKILLS

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<b>Computer Languages</b>	Python, IRAF, HTML, CSS, and SQL
<b>Computer Software Knowledge</b>	Google Drive Suite, MS Office Suite, Adobe Creative Suite, L <sup>A</sup> T <sub>E</sub> X, Pinnacle Studios Video Editing, monday.com, Audacity, Mathematica, Canopus, and IgorPro

## PROFESSIONAL SOCIETIES

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American Astronomical Society	Member
SPIE - International Society of Optics and Photonics	Member, 2014—2016

## REFEREED PUBLICATIONS

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1. French, L. M., Stephens, R. D., Coley, D., Wasserman, L. H., and **Sieben, J.**, “[Rotation lightcurves of small jovian Trojan asteroids](#)”, *Icarus*, vol. 254, pp. 1–17, 2015.
2. Salzer, J. J., Carr, D. J., **Sieben, J.**, et al., “[The Star Formation Across Cosmic Time \(SFACT\) Survey. I. Survey Description and Early Results from a New Narrow-Band Emission-Line Galaxy Survey](#)”, 2023 *AJ* **166** 81.
3. **Sieben, J.**, Carr, D. J., Salzer, J. J., et al., “[The Star Formation Across Cosmic Time \(SFACT\) Survey. II. The First Catalog of Targets from a New Narrow-Band Survey for Emission-Line Objects](#)”, 2023 *AJ* **166** 101.
4. Carr, D. J., **Sieben, J.**, Salzer, J. J., et al., “[The Star Formation Across Cosmic Time \(SFACT\) Survey. III. Spectroscopy of the Initial Catalog of Emission-Line Objects](#)”, 2023 *AJ* **166** 102.

## CONFERENCE POSTERS

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3. Brucker, M. J., Nault, K. A., Hammergren, M., **Sieben, J.**, Gyuk, G., Solontoi, M. R. 2015. Preliminary Light Curve Results of NEOs from the Characterization and Astrometric Follow-Up Program at Adler Planetarium. AAS/Division for Planetary Sciences Meeting Abstracts #47 307.07.
2. **Sieben, J.**, Salzer, J., Carr, D. J. 2019. The SFACT Survey - Star Formation Across Cosmic Time. American Astronomical Society Meeting Abstracts #233, 144.04.
1. **Sieben, J.**, Salzer, J., Van Sistine, A., Gronwall, C. 2020. Luminosity Functions Derived from Three Distinct Emission Line Selected Galaxy Samples. American Astronomical Society Meeting Abstracts #235, 208.06.

## TALKS

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“Reaching Beyond the Stars” Bays Mountain StarFest	<i>October 2018</i>
“Oven Baked Galaxies” Public Science Symposium 2021, Indiana University	<i>June 2021</i>
“Star Formation Across Cosmic Time (SFACT) survey” AAS Dissertation talk	<i>January 2023</i>
“Observational Astronomy” Lake County Astronomical Society	<i>February 2023</i>
“The Latest in Heliophysics” Lake County Astronomical Society	<i>July 2024</i>

## MEDIA

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Siegel, E. Interviewee. “[#57 - The Universe’s Newborn Stars](#)” Starts With a Bang. 2020 June.

## AWARDS

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Frank & Margaret Edmondson Prize for Teaching	<i>April 2021</i>
College of Arts and Sciences Dissertation Research Fellowship \$ 20,000	<i>2020—2021</i>
IUB Provost’s Travel Award for Women in Science	<i>Fall 2018, Fall 2019, Fall 2021</i>
College of Arts and Sciences Travel Award	<i>Fall 2019</i>
Indiana Space Grant PhD Fellowship \$ 12,000	<i>2018—2019, 2019—2020</i>
Goethe Link Prize for Outreach and Public Education in Astronomy	<i>May 2019, April 2020</i>

Last updated: May 12, 2025