

# Samuel McCarty

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First-year PhD student in Astronomy & Astrophysics at the  
Center for Astrophysics | Harvard & Smithsonian  
[samuel.mccarty@cfa.harvard.edu](mailto:samuel.mccarty@cfa.harvard.edu)  
[samuelmccarty.com](http://samuelmccarty.com)

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|------------------------------------|---|------------------------------------|
| <b>Education</b>                   | Harvard University<br>Ph.D., Astronomy & Astrophysics   | Cambridge, MA<br>09/2025 – Present |
|                                    | University of Washington<br>B.S. <i>magna cum laude</i> with honors in Physics and Astronomy<br>Cumulative GPA: 3.96/4.0, Physics: 3.98, Astronomy: 3.96                        | Seattle, WA<br>06/2025             |
| <b>Publications</b>                | <a href="#">McCarty, S., Connor, L., &amp; Konietzka, R. (2026)</a> . <i>The CGM with local universe FRBs: evidence of strong AGN feedback in a massive elliptical galaxy</i> . |                                    |
|                                    | <a href="#">McCarty, S., &amp; Connor, L. (2025)</a> . <i>Strong gravitational lensing with upcoming wide-field radio surveys</i> . MNRAS.                                      |                                    |
| <b>Research</b>                    | Graduate Researcher, Harvard<br>Project: The CGM with local universe FRBs, Advisor: Dr. Liam Connor   | 09/2025 – Present                  |
|                                    | Graduate Researcher, Harvard<br>Project: JWST NIRSpec MOS development, Advisor: Dr. Daniel Eisenstein   | 09/2025 – Present                  |
|                                    | Caltech Summer Undergraduate Research Fellowship, CIT<br>Project: Radio Strong Lensing, Advisor: Dr. Liam Connor  | 03/2024 – 08/2025                  |
|                                    | Undergraduate Researcher, University of Washington<br>Project: Simulations of the IGM, Advisor: Dr. Matthew McQuinn   | 05/2023 – 06/2025                  |
|                                    | Undergraduate Researcher, University of Washington<br>Project: ML biosignature detection, Advisor: Dr. Victoria Meadows   | 01/2025 – 08/2025                  |
|                                    | Undergraduate Researcher, University of Washington<br>Project: Quasar absorption spectroscopy, Advisor: Dr. Jessica Werk  | 06/2023 – 06/2025                  |
|                                    | Undergraduate Researcher, University of Washington<br>Project: UW Nanopore Lab, Advisor: Dr. Jens Gundlach  | 03/2023 – 04/2024                  |
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| <b>Posters &amp; Presentations</b> | <i>A new view of AGN feedback with FRBs</i>   | 2026                               |
|                                    | – <a href="#">AGN &amp; Energy Flows Workshop</a> , Center for Computational Astrophysics<br><a href="#">Strong lensing with upcoming wide-field radio surveys</a>              | 2025                               |

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|----------------------------------|---|---------------------|
|                                  | – ASTRO 3D <a href="#">Strong Lensing in the Next Decade</a> workshop, Harvard CfA        |                     |
|                                  | <i>Towards a Statistical Framework for HWO Biosignature Assessment</i>                    | 2025                |
|                                  | – HWO2025 conference, Johns Hopkins   |                     |
|                                  | <i>Structure of Cosmic Sheets and Filaments</i>   | 2024                |
|                                  | – Mary Gates Research Symposium, University of Washington                                 |                     |
| <b>Outreach &amp; Service</b>    | Astronomy on Tap Boston Organizer   | 2025 – Present      |
|                                  | <i>A History of Radio Astronomy</i> , AoT Boston  | 2026                |
|                                  | Undergrad Mentorship Program Leader (UW Physics)  | 2024 – 2025         |
|                                  | UW Mobile Planetarium Volunteer   | 2022 – 2025         |
|                                  | <i>Exploring Strong Gravitational Lensing</i>   | 04/24/2024          |
|                                  | ~45-minute public outreach talk for Astronomy on Tap Seattle. <a href="#">Video here.</a> |                     |
|                                  | Outreach Coordinator (UW Astro)   | 2022 – 2023         |
|                                  | Phi Delta Theta Executive Social Chair  | 2023 – 2024         |
| <b>Honors &amp; Achievements</b> | <i>Top Graduating Senior</i> (UW Physics)   | 2025                |
|                                  | <i>Departmental honors in both Physics and Astronomy</i> (UW)                             | 2025                |
|                                  | <i>Phi Beta Kappa</i> (UW)  | 2025                |
|                                  | <i>Caltech Summer Undergraduate Research Fellowship</i>                                   | 2024                |
|                                  | <i>Hans G. Dehmelt Scholarship</i> (UW Physics)   | 2024                |
|                                  | <i>Mary Gates Research Scholarship</i> (UW)   | 2024                |
|                                  | <i>Baer Prize</i> (UW Astro)  | 2024                |
|                                  | <i>Greek Man of the Year</i> (UW)   | 2023                |
|                                  | 93rd percentile Physics GRE (970/990)   |                     |
|                                  | Dean's List every quarter in undergrad  |                     |
|                                  | Perfect score on the ACT  |                     |
| <b>Observing Experience</b>      | Very Large Array, 16 hours (ID:26A-289, PI: McCarty)                                      | 2026                |
|                                  | Keck LRIS   | 11/20/25            |
|                                  | Local Volume Mapper, Las Campanas Observatory   | 11/14/24 - 02/01/25 |
|                                  | Hale 200 Inch Telescope, Palomar Observatory  | 08/14/2024          |
|                                  | ARCSAT 0.5m Telescope, Apache Point Observatory   | 04/22-23/2024       |