

# Aidan Kaminsky

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## Education

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| <b>University of Miami</b><br><i>Ph.D. in Physics</i>  | 08/2023 – 05/2028 |
| ◦ GPA: 3.856/4.0   |                   |
| ◦ <b>Coursework:</b> Classical Mechanics, Thermodynamics, Quantum Theory   |                   |
| <b>Rensselaer Polytechnic Institute</b><br><i>B.S. in Physics</i>  | 08/2019 – 05/2023 |
| ◦ GPA: 3.52/4.0  |                   |
| ◦ <b>Coursework:</b> Physics, Theoretical Mechanics, Astrophysics of Galaxies, Observational Astrophysics, Magnetic Star Formation |                   |

## Research



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| <b>Visiting Student</b><br><i>NASA Goddard Space Flight Center</i>  | Greenbelt, MD<br>06/2024 – 08/2025     |
| ◦ Optimizing Cosmic Infrared Background models for Spitzer, Euclid, and Roman measurements  |  |
| <b>Intern</b><br><i>NASA Ames Research Center, SOFIA Science Center</i>   | Mountain View, CA<br>08/2021 – 08/2022 |
| ◦ Analyzed sythnetic observations from the SILCC-Zoom magneto-hydrodynamic simulations to complement observational findings                       |  |
| ◦ Used data from Planck, SOFIA, ALMA, APEX to probe magnetic field moporphology and gas dynamics of filamentary clouds in the interstellar medium |  |

## Teaching

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| <b>Guest Lecturer</b><br><i>Introductory Astrophysics - Cosmology</i>                           | 04/2025                |
| <b>Graduate Teaching Assistant</b><br><i>Introductory Physics - Electricity &amp; Magnetism</i> | 08/2023-12/2024        |
| <b>Undergraduate Teaching Assistant</b><br><i>Stars, Galaxies, and the Cosmos</i>               | 05-08/2021, 01-05/2023 |
| <b>Physics I-PERSIST Mentor</b><br><i>Introductory Physics</i>                                  | 08-12/2020             |

## Publications

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| “Tracing high-z Galaxies in X-rays with JWST and Chandra”   | 2025    |
| <b>Kaminsky, A.</b> , Cappelluti, N., Hasinger, G., et al.<br><i>eprint arXiv:2502.09705</i> , <a href="https://arxiv.org/abs/2502.09705">10.48550/arXiv.2502.09705</a> <a href="#">🔗</a>                             |         |
| “COSMOS-Web: A history of galaxy migrations over the stellar mass–star formation rate plane”  | 04/2025 |
| Arango-Toro, R. C., . . . , <b>Kaminsky, A.</b> , et al.<br><i>A&amp;A</i> , Volume 696, Art. no. A159, <a href="https://arxiv.org/abs/2024.52519">10.1051/0004-6361/202452519</a> <a href="#">🔗</a>                  |         |
| “COSMOS-Web: The Role of Galaxy Interactions and Disk Instabilities in Producing Starbursts at $z < 4$ ”  | 02/2025 |
| Faisst, A. L., . . . , <b>Kaminsky, A.</b> , et al.<br><i>The Astrophysical Journal</i> , Volume 980, Issue 2, id.24, 12 pp , <a href="https://arxiv.org/abs/2024.566">10.3847/1538-4357/ada566</a> <a href="#">🔗</a> |         |
| “Clumps as multiscale structures in cosmic noon galaxies”   | 01/2025 |
| Kalita, B. S., . . . , <b>Kaminsky, A.</b> , et al.<br><i>MNRAS</i> , Volume 536, Issue 3, pp. 3090–3111, <a href="https://arxiv.org/abs/2024.2781">10.1093/mnras/stae2781</a> <a href="#">🔗</a>                      |         |

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| “Crimson Behemoth: A massive clumpy structure hosting a dusty AGN at $z=4.91$ ”<br>Tanaka, T. S., . . . , <b>Kaminsky, A.</b> , et al.<br><i>PASJ</i> , Volume 76, Issue 6, pp. 1323–1355, <a href="https://doi.org/10.1093/pasj/psae091">10.1093/pasj/psae091</a>  | 12/2024 |
| “On the 3D Curvature and Dynamics of the Musca Filament”<br><b>Kaminsky, A.</b> , Bonne, L., Aroumanian, D., Coudé, S., et al.<br><i>ApJ</i> , Volume 948, Issue 2, id.109, 12 pp, <a href="https://doi.org/10.3847/1538-4357/acc462">10.3847/1538-4357/acc462</a>  | 05/2023 |

## Awards

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| <b>Honorable Mention</b><br>National Science Foundation Graduate Research Fellowship Program (NSF GRFP) | 04/2025 |
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## Conferences & Talks

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| “Tracing High- $z$ Galaxies with JWST and Chandra: Future Insights with AXIS”<br><b>Kaminsky, A.</b> , Cappelluti, N., Hasinger G., et al.<br><i>AXIS Community Science Conference</i>   | 05/2025 |
| “On the 3D Curvature and Dynamics of the Musca Filament”<br><b>Kaminsky, A.</b> , Bonne, L., Aroumanian, D., Coudé, S.<br><i>SOFIA Community Forum Tele-talk</i>   | 06/2023 |
| “On the 3D Curvature and Dynamics of the Musca Filament”<br><b>Kaminsky, A.</b> , Bonne, L., Aroumanian, D., Coudé, S.<br><i>AAS 214<sup>th</sup> Meeting, Bulletin of the American Astronomical Society, Vol. 55, No. 2, id. 2023n2i211p1</i> | 01/2023 |