

Aidan Kaminsky

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Education

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

Research



Student Research Collaborator <i>NASA Goddard Space Flight Center</i>	Greenbelt, MD 06/2024 – 08/2025
◦ Optimizing Cosmic Infrared Background models for Spitzer, Euclid, and Roman measurements	
Intern <i>NASA Ames Research Center, SOFIA Science Center</i>	Mountain View, CA 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

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

Publications

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

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

Awards

Honorable Mention National Science Foundation Graduate Research Fellowship Program (NSF GRFP)	04/2025
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Conferences & Talks

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