

Andrew Charles Kramer

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Education	<i>B.S., Physics with a Specialization in Astrophysics with a Minor in Mathematics</i> June 2027 University of California, San Diego	
Research Experience	Undergraduate Research Assistant University of California San Diego Advisor: Dr. Shelley Wright Performing simulations and models of the Keck Liger IFS, characterizing the wavelength solution for each of the IFS modes and determining the capabilities of the calibration bench in Keck I for the next generation of high spectral resolution AO-fed integral field spectrographs. Along with installation of cryogenic and vacuum components into the test chamber for Keck Liger.	2024 - Present
Scholarships and Awards	Provost Honors University of California San Diego, Revelle College	2023 - 2024
Talks & Posters	<i>Liger at W.M. Keck Observatory: IFS Wavelength Calibration.</i> September 2026 Authors: Andrew C. Kramer , Bryson L. Cale, Nathan P. Magari, Shelley A. Wright Poster Presentation at Keck Science Meeting 2026	
Work Experience	Intern, Palomar Scientific Instruments Wrote programs to toggle power to cameras in the Tokamak at General Atomics and analyze data from the Tokamak. Along with soldering components and assembling computer workstations.	June 2022 - September 2024
References	Dr. Shelley Wright Department of Astronomy and Astrophysics University of California San Diego SERF Building, Rm. 414 (858) 534-3316 s2wright.ucsd.edu Dr. James Wiley Department of Astronomy California Institute of Technology 138 Cahill Astrophysics (626) 395-5722 jhwiley@caltech.edu Dr. Bryson Cale Department of Astronomy and Astrophysics University of California San Diego brcale@ucsd.edu	

Volunteering	UCSD Cosmic Tours Helping give portable planetarium shows to low income K-12 schools in the San Diego area.	2025 - Present
Publications	Lee, M-Y. L., S. A. Wright, R. Kupke, A. Brown, J. Maire, R. Leimbach, B. Cale, J. Wiley, L. Y. Alcorn, T. Aliado, J. Cabak, M. Cosens, C. Johnson, T. Jones, M. Kassis, A. C. Kramer, E. Kress, J. E. Larkin, N. MacDonald, N. P. Magari, K. Magnone, E. Wang, K. Warad, and S. Wroolie (2026). “Liger at W.M. Keck Observatory: imager optical alignment”. In: <i>Ground-based and Airborne Instrumentation for Astronomy XI</i>. Ed. by Joël R. D. Vernet, Julia J. Bryant, and Kentaro Motohara. Vol. 14149. International Society for Optics and Photonics. SPIE, p. 141494X. DOI: 10.1117/12.3105512. URL: https://doi.org/10.1117/12.3105512. Leimbach, R., S. A. Wright, J. Maire, A. Brown, B. Cale, M-Y. L. Lee, J. Wiley, M. Cosens, C. Johnson, R. Kupke, E. Kress, J. Larkin, K. Magnone, E. Wang, T. Jones, A. C. Kramer, N. Magari, N. McDonald, and K. Warad (2026). “Liger at W.M. Keck Observatory: imager detector assembly and characterization”. In: <i>Ground-based and Airborne Instrumentation for Astronomy XI</i>. Ed. by Joël R. D. Vernet, Julia J. Bryant, and Kentaro Motohara. Vol. 14149. International Society for Optics and Photonics. SPIE, 141499S. DOI: 10.1117/12.3105334. URL: https://doi.org/10.1117/12.3105334.	