Arjun B. Savel

Ph.D. Candidate, Astrophysics Researcher

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EDUCATION

University of Maryland, College Park

College Park, MD

Ph.D., Astronomy

Expected

M.S., Astronomy | Advisor: Prof. Eliza M.-R. Kempton

2022

University of California, Berkeley

Berkeley, CA

B.A., Astrophysics; B.A., Physics | Advisor: Asst. Prof. Courtney D. Dressing

2020

POSITIONS

Graduate Researcher-University of Maryland, College Park

College Park, MD

Three-dimensionality in high-resolution spectra of hot and ultra-hot Jupiters | Advisor: Prof. Eliza M.-R. Kempton

2020-current

Consultant—ScienceBetter Consulting

New York, NY

Tutorial Jupyter notebooks for MAST science cases | Manager: Prof. Kelle Cruz

2022-current

Pre-doctoral fellow—Center for Computational Astrophysics, Flatiron Institute

New York, NY

The uncertainty budget of high-resolution cross-correlation spectroscopy | Mentor: Dr. Megan Bedell

2022-2023

Research Assistant—University of California, Berkeley

Berkeley, CA

Exoplanet occurrence rates and imaging of Kepler stars | Advisors: Asst. Prof. Courtney D. Dressing & Asst. Prof. Lea A. Hirsch

2018-2020

SELECTED & CURRENT RESEARCH INTERESTS

- · Extracting 3-D information (wind, chemical, aerosol, and thermal structures) from exoplanet atmospheres
- Improving high-resolution cross-correlation spectroscopy techniques
- · Characterizing exoplanetary systems and host stars

PUBLICATIONS (* = MENTORED STUDENT)

citations: 337 / h-index: 10 / 6 first-author refereed

REFEREED PUBLICATIONS

- 34 Tuson, A.; Queloz, D.; Osborn, H. P.; Wilson, T. G. et al. (119 other co-authors, incl. Savel, Arjun) 2023, TESS and CHEOPS discover two warm sub-Neptunes transiting the bright K-dwarf HD 15906, MNRAS, 523, 3090 [3 citations]
- 33 Dai, Fei; Schlaufman, Kevin C.; Reggiani, Henrique; Bouma, Luke et al. (48 other co-authors, incl. **Savel, Arjun**) 2023, A Mini-Neptune Orbiting the Metal-poor K Dwarf BD+29 2654, ArXiv (arXiv:2306.08179)
- 32 Beltz, Hayley; Rauscher, Emily; Kempton, Eliza M. -R.; Malsky, Isaac et al. (2 other co-authors, incl. **Savel, Arjun**) 2023, Magnetic Effects and 3D Structure in Theoretical High-resolution Transmission Spectra of Ultrahot Jupiters: the Case of WASP-76b, AJ, 165, 257
- 31 Gao, Peter; Piette, Anjali A. A.; Steinrueck, Maria E.; Nixon, Matthew C. et al. (12 other co-authors, incl. Savel, Arjun) 2023, The Hazy and Metal-Rich Atmosphere of GJ 1214 b Constrained by Near and Mid-Infrared Transmission Spectroscopy, ArXiv (arXiv:2305.05697)
- 30 Rodriguez, Joseph E.; Quinn, Samuel N.; Vanderburg, Andrew; Zhou, George et al. (130 other co-authors, incl. Savel, Arjun) 2023, Another shipment of six short-period giant planets from TESS, MNRAS, 521, 2765 [8 citations]
- 29 **Savel**, **Arjun**; Kempton, Eliza M. -R.; Rauscher, Emily; Komacek, Thaddeus D. et al. 2023, Diagnosing Limb Asymmetries in Hot and Ultrahot Jupiters with High-resolution Transmission Spectroscopy, ApJ, 944, 99 [1 citation]
- 28 Lillo-Box, J.; Gandolfi, D.; Armstrong, D. J.; Collins, K. A. et al. (62 other co-authors, incl. Savel, Arjun) 2023, TOI-969: a late-K dwarf with a hot mini-Neptune in the desert and an eccentric cold Jupiter, A&A, 669 (arXiv:2210.08996) [4 citations]
- 27 Savel, Arjun; Hirsch, Lea A.; *Gill, Holden; Dressing, Courtney D. et al. 2022, SImMER: A Pipeline for Reducing and Analyzing Images of Stars, PASP, 134, 124501 (arXiv:2212.00641) [2 citations]

- 26 Beltz, Hayley; Rauscher, Emily; Kempton, Eliza M. -R.; Malsky, Isaac et al. (4 other co-authors, incl. Savel, Arjun) 2022, Magnetic Drag and 3D Effects in Theoretical High-resolution Emission Spectra of Ultrahot Jupiters: the Case of WASP-76b, AJ, 164, 140 [8 citations]
- 25 Esparza-Borges, E.; Parviainen, H.; Murgas, F.; Pallé, E. et al. (45 other co-authors, incl. Savel, Arjun) 2022, A hot sub-Neptune in the desert and a temperate super-Earth around faint M dwarfs. Color validation of TOI-4479b and TOI-2081b, A&A, 666 [1 citation]
- 24 Newton, Elisabeth R.; Rampalli, Rayna; Kraus, Adam L.; Mann, Andrew W. et al. (36 other co-authors, incl. Savel, Arjun) 2022, TESS Hunt for Young and Maturing Exoplanets (THYME). VII. Membership, Rotation, and Lithium in the Young Cluster Group-X and a New Young Exoplanet, AJ, 164, 115 [10 citations]
- 23 Gandhi, Siddharth; Kesseli, Aurora; Snellen, Ignas; Brogi, Matteo et al. (5 other co-authors, incl. Savel, Arjun) 2022, Spatially resolving the terminator: variation of Fe, temperature, and winds in WASP-76 b across planetary limbs and orbital phase, MNRAS, 515, 749 [6 citations]
- 22 Yee, Samuel W.; Winn, Joshua N.; Hartman, Joel D.; Rodriguez, Joseph E. et al. (69 other co-authors, incl. **Savel, Arjun**) 2022, *The TESS Grand Unified Hot Jupiter Survey. I. Ten TESS Planets*, AJ, 164, 70 [9 citations]
- 21 Gan, Tianjun; Soubkiou, Abderahmane; Wang, Sharon X.; Benkhaldoun, Zouhair *et al.* (63 other co-authors, incl. **Savel, Arjun**) 2022, *TESS discovery of a sub-Neptune orbiting a mid-M dwarf TOI-2136*, MNRAS, 514, 4120 [9 citations]
- 20 Murakami, Yukei S.; Jennings, Connor; Hoffman, Andrew M.; Savel, Arjun et al. (7 other co-authors, incl. Savel, Arjun) 2022, PIPS, an advanced platform for period detection in time series I. Fourier-likelihood periodogram and application to RR Lyrae stars, MNRAS, 514, 4489 [1 citation]
- 19 Gandhi, Siddharth; Kesseli, Aurora; Snellen, Ignas; Brogi, Matteo et al. (5 other co-authors, incl. Savel, Arjun) 2022, Spatially-resolving the terminator: Variation of Fe, temperature and winds in WASP-76 b across planetary limbs and orbital phase, ArXiv (arXiv:2206.11268)
- 18 Esparza-Borges, E.; Parviainen, H.; Murgas, F.; Pallé, E. et al. (45 other co-authors, incl. Savel, Arjun) 2022, A hot sub-Neptune in the desert and a temperate super-Earth around faint M dwarfs: Color validation of TOI-4479b and TOI-2081b, ArXiv (arXiv:2206.10643)
- 17 Rodriguez, Joseph E.; Quinn, Samuel N.; Vanderburg, Andrew; Zhou, George et al. (119 other co-authors, incl. Savel, Arjun) 2022, Another Shipment of Six Short-Period Giant Planets from TESS, ArXiv (arXiv:2205.05709)
- 16 Beltz, Hayley; Rauscher, Emily; M. -R Kempton, Eliza; Malsky, Isaac et al. (4 other co-authors, incl. Savel, Arjun) 2022, Magnetic Drag and 3-D Effects in Theoretical High-Resolution Emission Spectra of Ultrahot Jupiters: the Case of WASP-76b, ArXiv (arXiv:2204.12996)
- 15 Giacalone, Steven; Dressing, Courtney D.; Hedges, Christina; Kostov, Veselin B. et al. (108 other co-authors, incl. Savel, Arjun) 2022, Validation of 13 Hot and Potentially Terrestrial TESS Planets, AJ, 163, 99 [5 citations]
- 14 Dong, Jiayin; Huang, Chelsea X.; Zhou, George; Dawson, Rebekah I. et al. (56 other co-authors, incl. Savel, Arjun) 2022, NEID Rossiter-McLaughlin Measurement of TOI-1268b: A Young Warm Saturn Aligned with Its Cool Host Star, ApJ, 926 (arXiv:2201.12836) [10 citations]
- 13 **Savel**, **Arjun**; Kempton, Eliza M. -R.; Malik, Matej; Komacek, Thaddeus D. et al. 2022, No Umbrella Needed: Confronting the Hypothesis of Iron Rain on WASP-76b with Post-processed General Circulation Models, ApJ, 926, 85 [20 citations]
- 12 de Leon, J. P.; Livingston, J.; Endl, M.; Cochran, W. D. et al. (24 other co-authors, incl. Savel, Arjun) 2021, 37 new validated planets in overlapping K2 campaigns, MNRAS, 508, 195 [13 citations]
- 11 May, Erin M.; Komacek, Thaddeus D.; Stevenson, Kevin B.; Kempton, Eliza M. -R. et al. (15 other co-authors, incl. Savel, Arjun) 2021, Spitzer Phase-curve Observations and Circulation Models of the Inflated Ultrahot Jupiter WASP-76b, AJ, 162, 158 [22 citations]
- 10 Cloutier, Ryan; Charbonneau, David; Stassun, Keivan G.; Murgas, Felipe *et al.* (63 other co-authors, incl. **Savel, Arjun**) 2021, *TOI-1634 b: An Ultra-short-period Keystone Planet Sitting inside the M-dwarf Radius Valley*, AJ, 162, 79 [18 citations]
- 9 Savel, Arjun; Kempton, Eliza M. -R.; Malik, Matej; Komacek, Thaddeus D. et al. 2021, No umbrella needed: Confronting the hypothesis of iron rain on WASP-76b with post-processed general circulation models, ArXiv (arXiv:2109.00163)
- 8 de Leon, J. P.; Livingston, J.; Endl, M.; Cochran, W. D. et al. (24 other co-authors, incl. Savel, Arjun) 2021, 37 New Validated Planets in Overlapping K2 Campaigns, ArXiv (arXiv:2108.05621)
- 7 Murakami, Yukei S.; Jennings, Connor; Hoffman, Andrew M.; **Savel**, **Arjun** et al. (7 other co-authors, incl. **Savel**, **Arjun**) 2021, PIPS, an advanced platform for period detection in time series I. Fourier-likelihood periodogram and application to RR Lyrae Stars, ArXiv (arXiv:2107.14223)
- 6 Foreman-Mackey, Daniel; Luger, Rodrigo; Agol, Eric; Barclay, Thomas et al. (13 other co-authors, incl. Savel, Arjun) 2021, exoplanet: Gradient-based probabilistic inference for exoplanet data & other astronomical time series, JOSS, 6, 3285 [97 citations]
- 5 Rodriguez, Joseph E.; Quinn, Samuel N.; Zhou, George; Vanderburg, Andrew et al. (115 other co-authors, incl. Savel, Arjun) 2021, TESS Delivers Five New Hot Giant Planets Orbiting Bright Stars from the Full-frame Images, AJ, 161, 194 [24 citations]
- 4 Cloutier, R.; Charbonneau, D.; Stassun, K. G.; Murgas, F. et al. (63 other co-authors, incl. Savel, Arjun) 2021, TOI-1634 b: an Ultra-Short Period Keystone Planet Sitting Inside the M Dwarf Radius Valley, ArXiv (arXiv:2103.12790)
- 3 Savel, Arjun; Dressing, Courtney D.; Hirsch, Lea A.; Ciardi, David R. et al. 2020, A Closer Look at Exoplanet Occurrence Rates: Considering the Multiplicity of Stars without Detected Planets, AJ, 160, 287 [22 citations]
- 2 Savel, Arjun; Dressing, Courtney D.; Hirsch, Lea A.; Ciardi, David R. et al. 2020, A Closer Look at Exoplanet Occurrence Rates: Considering the Multiplicity of Stars Without Detected Planets, ArXiv (arXiv:2011.09564)
- 1 Demory, B. -O.; Pozuelos, F. J.; Gómez Maqueo Chew, Y.; Sabin, L. et al. (70 other co-authors, incl. **Savel, Arjun**) 2020, A super-Earth and a sub-Neptune orbiting the bright, quiet M3 dwarf TOI-1266, A&A, 642 (arXiv:2009.04317) [44 citations]

UNDER REVIEW

- 6 Tuson, Amy; Queloz, Didier; Osborn, Hugh P.; Wilson, Thomas G. et al. (119 other co-authors, incl. Savel, Arjun) 2023, TESS and CHEOPS Discover Two Warm Sub-Neptunes Transiting the Bright K-dwarf HD 15906, ArXiv (arXiv:2306.04511)
- 5 Kempton, Eliza M. -R.; Zhang, Michael; Bean, Jacob L.; Steinrueck, Maria E. et al. (30 other co-authors, incl. Savel, Arjun) 2023, A reflective, metal-rich atmosphere for GJ 1214b from its JWST phase curve, ArXiv (arXiv:2305.06240) [1 citation]
- 4 Coulombe, Louis-Philippe; Benneke, Björn; Challener, Ryan; Piette, Anjali A. A. et al. (73 other co-authors, incl. **Savel, Arjun**) 2023, A broadband thermal emission spectrum of the ultra-hot Jupiter WASP-18b, ArXiv (arXiv:2301.08192) [9 citations]
- 3 Newton, Elisabeth R.; Rampalli, Rayna; Kraus, Adam L.; Mann, Andrew W. et al. (36 other co-authors, incl. Savel, Arjun) 2022, TESS Hunt for Young and Maturing Exoplanets (THYME) VII: Membership, rotation, and lithium in the young cluster Group-X and a new young exoplanet, ArXiv (arXiv:2206.06254)
- 2 Yee, Samuel W.; Winn, Joshua N.; Hartman, Joel D.; Rodriguez, Joseph E. et al. (69 other co-authors, incl. Savel, Arjun) 2022, The TESS Grand Unified Hot Jupiter Survey. I. Ten TESS Planets, ArXiv (arXiv:2205.09728)
- 1 Gan, Tianjun; Soubkiou, Abderahmane; Wang, Sharon X.; Benkhaldoun, Zouhair et al. (60 other co-authors, incl. Savel, Arjun) 2022, TESS discovery of a sub-Neptune orbiting a mid-M dwarf TOI-2136, ArXiv (arXiv:2202.10024)

SELECTED HONORS, PRIZES, & AWARDS

- 11 Winner, Three-Minute Thesis Pre-Candidacy Competition, College of Computer, Mathematical, and Natural Sciences, UMD (2023)
- 10 CCA Pre-Doctoral Fellowship, Flatiron Institute Center for Computational Astrophysics (2022)
- 9 Gregor and Donat Wentzel Scholarship, University of Maryland (2020)
- 8 ARCS fellowship (2020; declined)
- 7 University Fellowship, Michigan State University (2020; declined)
- 6 If A Director's Research Excellence Award (2020; declined)
- 5 Student commencement speaker, UC Berkeley Astronomy Department (2020)
- 4 Outstanding Graduate Student Instructor Award, UC Berkeley (2020)
- 3 1st place, Astronomy Poster Summer Intern Symposium, UC Berkeley (2019)
- 2 Student Technology Fund grant for ULAB, UC Berkeley (2018)
- 1 Ongoing Physics Department award for ULAB, UC Berkeley (2018)

SCIENCE TALKS

- 12 **Arjun Savel**, 2023 (upcoming). Center for Theory and Computation Lunch Talk, Department of Astronomy, University of Maryland, College Park, MD.
- 11 Arjun Savel, 2023. Flatiron CCA Pre-doctoral Symposium, New York, NY.
- 10 **Arjun Savel**, 2022. "Phase-resolved asymmetries of (ultra)hot Jupiters in high-resolution transmission: drivers and diagnostics", Flatiron Exoplanet Atmospheres Symposium, New York, NY.
- 9 Arjun Savel, 2022. "Modeling Lorentz drag in an ultra-hot Jupiter over a range of atmospheric parameters", Burgers Program Research Symposium on Environmental and Applied Fluid Dynamics, The George Washington University.
- 8 **Arjun Savel**, 2022. "Phase-resolved asymmetries of (ultra)hot Jupiters in high-resolution transmission: drivers and diagnostics", Exoplanets IV, Las Vegas, CA.
- 7 **Arjun Savel**, 2022. "Phase-resolved asymmetries of (ultra)hot Jupiters in high-resolution transmission: drivers and diagnostics", Bay Area Exoplanet Meeting #40, NASA Ames.
- 6 **Arjun Savel**, 2021. "No umbrella needed: Confronting the hypothesis of iron rain on WASP-76b with post-processed general circulation models", ExoCoffee, MPIA Heidelberg (**invited**).
- 5 **Arjun Savel**, 2021. "No umbrella needed: Confronting the hypothesis of iron rain on WASP-76b with post-processed general circulation models", Astronomy and Space Physics Seminar, University of Kansas.
- 4 Courtney D. Dressing, Steven Giacalone, Ellianna S. Abrahams *et al.* (7 other co-authors, incl. **Arjun Savel**), 2020. "Using TESS to Investigate the Frequency of Planetary Systems Orbiting Cool Dwarfs", AAS 235, Honolulu.
- 3 **Arjun Savel**, Courtney D. Dressing, Lea Hirsch, David Ciardi, Jordan P.C. Fleming, Steven Giacalone, Andrew W. Mayo, Jessie L. Christiansen, 2019. "A Closer Look at Exoplanet Occurrence Rates: Considering the Multiplicity of Stars without Detected Planets", Bay Area Exoplanet Meeting #31, NASA Ames
- 2 **Arjun Savel**, Courtney D. Dressing, Lea Hirsch, David Ciardi, Jordan P.C. Fleming, Steven Giacalone, Andrew W. Mayo, Jessie L. Christiansen, 2019. "A Closer Look at Exoplanet Occurrence Rates: The Impact of Stars Without Exoplanets", Bay Area Planetary Sciences Meeting, Stanford University.
- 1 Arjun Savel, 2019. "Earth: Rare or Regular?", Undergraduate Seminars, UC Berkeley.

MISC. TECHNICAL TALKS

- 5 Arjun Savel, 2023. "Undergraduate mentoring training", UMD, College Park.
- 4 Arjun Savel, 2022. "CI / CD", UMD, College Park.

- 3 Arjun Savel, 2022. "Giving a good presentation", UMD, College Park.
- 2 Arjun Savel, 2021. "Parallel Computing", UMD, College Park.
- 1 Arjun Savel, 2020. "CI / CD", UC Berkeley.

POSTERS

- 5 Ariun Savel et al. Exoclimes VI. Exeter, UK. 2023.
- 4 **Arjun Savel**, Courtney D. Dressing, Lea Hirsch, David Ciardi, Jordan P.C. Fleming, Steven Giacalone, Andrew W. Mayo, Jessie L. Christiansen, 2020. "A closer look at planet occurrence rates: AO follow-up of 71 stars in the Kepler field", AAS 235, Honolulu.
- ³ **Arjun Savel**, Courtney D. Dressing, Lea Hirsch, David Ciardi, Jordan P.C. Fleming, Jessie L. Christiansen, 2019. "A closer look: AO follow-up of 109 stars in the Kepler and K2 fields", APSIS Poster Session, UC Berkeley.
- 2 Courtney D. Dressing, Arjun Savel et al. 2019. "Characterizing Planetary Systems Orbiting TESS Cool Dwarfs", TESS Science Conference I, MIT.
- 1 Steven Giacalone, Courtney Dressing, **Arjun Savel**, 2019. "Validation of TESS Exoplanet Candidates", 3rd Advanced School on Exoplanetary Science, Vietri sul Mare.

RESEARCH MENTORING

Kenneth Ellis Arnold III, UMD, College Park (with Prof. Eliza M.-R. Kempton), 2022–present

Modeling limb asymmetries of cloudy hot Jupiter atmospheres

Holden Gill, UC Berkeley (with Asst. Prof. Courtney D. Dressing), 2020-2022

Ground-based imaging follow-up of K2 planet hosts

PEER MENTORING

Serena Cronin, UMD, College Park, via Astro Grad Buddy Program, 2021 Lawrence Edmond IV, UC Berkeley, via Astronomy Buddy Program, 2019

PUBLIC TALKS

- 5 Arjun Savel. Maryland Science Cafe, Spring 2023 (invited).
- 4 Arjun Savel. STAR astronomy club, October 2022 (invited).
- 3 Arjun Savel. Gloucester Area Astronomy Club, January 2021 (invited).
- 2 Arjun Savel. Amateur Astronomers, Inc. December Meeting, 2020.
- 1 Courtney D. Dressing, Steven Giacalone, Andrew W. Mayo, Arjun Savel. Evening with the Stars, UC Berkeley, 2020.

OBSERVING EXPERIENCE

3-meter Shane Telescope (ShARCS): assisted with 14.5 nights (Mt. Hamilton, CA) **10-meter Keck Telescope (NIRC2)**: assisted with 1/2 night (Mauna Kea, HI) **10-meter Keck Telescope (NIRSPEC)**: assisted with 1/2 night (Mauna Kea, HI)

TEACHING EXPERIENCE

- Instructor of Record, Astronomy 288I (Introduction to the Astronomy Major) UMD College Park (Spring 2023)
- Teaching Assistant and Grader, Astronomy 320 (Theoretical Astrophysics) UMD College Park, with Prof. Eliza Kempton (Spring 2023)
- Undergraduate Student Instructor, Astronomy C12 (The Planets) UC Berkeley, with Asst. Prof. Courtney D. Dressing and Prof. Raymond Jeanloz (Spring 2020)
- Undergraduate Student Instructor, Astronomy C10 (Introduction to General Astronomy) UC Berkeley, with Alex Filippenko (Fall 2018, Fall 2019)

COMMUNITY INVOLVEMENT

- Lead author / maintainer: High-resolution literature database (2022-present)
- · Graduation Gift Organizer, University of Maryland, College Park (2022-present)
- GRAD-MAP Team Co-Lead, University of Maryland, College Park (2022-present)
- Panelist: Carnegie EPL Summer Undergraduate Research Internship (SURI) Program's graduate school workshop (2022)
- BANG! Seminar Organizing Committee, University of Maryland, College Park (2021–2022)
- "Hot Papers" journal club organizer, University of Maryland, College Park (2020–2022)
- Reviewer, Journal of Open Source Software (3 projects reviewed) (2020-present)

- Equity, Diversity, and Inclusion Committee, University of Maryland, College Park (2020–2022)
- GRAD-MAP Team Member, University of Maryland, College Park (2020–2022)
- Mentor, TARDIS Google Summer of Code (2020)
- Public Liaison for Prof. Alex Filippenko (2019-present)
- Undergraduate Representative, Astronomy Department, UC Berkeley (2019-2020)
- Mentor, Berkeley Astronomy Scholars Program (2019-20)
- Director of Physics and Astronomy, Undergraduate Lab at Berkeley (ULAB) (2018-2019)
- Night Editor, The Daily Californian (2017)

WORKSHOPS & CONFERENCES

- Exoclimes VI, Exeter, UK (2023)
- Flatiron-wide Algorithms and Mathematics, New York (2022)
- Building Bridges Across Planet-Related Science, Baltimore (2022)
- Flatiron Exoplanet Atmospheres Symposium, New York (2022)
- · Burgers Program Research Symposium on Environmental and Applied Fluid Dynamics, Washington, D.C. (2022)
- Exoplanets IV, Las Vegas (2022)
- Chesapeake Bay Area Exoplanet Meeting, virtual (Spring 2021)
- Exoplanet atmosphere characterization: from HST and Spitzer to JWST (2021)
- JWST Master Class Workshop, Stanford University (2020)
- AAS Winter Meeting, Honolulu (2020)
- · Bay Area Exoplanet Meeting, NASA Ames (Spring 2019, Winter 2019, Spring 2020, Spring 2022)
- Bay Area Planetary Science Meeting, Stanford University (2019)

PROFESSIONAL AFFILIATIONS

American Astronomical Society

The AEThER Collaboration

The JWST Transiting Exoplanet Collaboration ERS program (JTEC)

SKILLS & ASSETS

- Programming / Markup Languages: Python, ADQL/SQL, R, C, HTML, JavaScript, LTFX
- Supercomputing Clusters: deepthought2 and zaratan at UMD, College Park; moria at MSU; rusty at Flatiron CCA
- Frameworks / Tools: git, Slurm, Numba, JAX, SciPy, Pandas, React
- Misc. Skills: Statistical sampling, astronomical image reduction, radiative transfer, open-source code management, optimization, web development / automation, copy editing
- Languages: English (fluent), Spanish (conversational), Hindi (basic)