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PUBLICATIONS

I am an author on **31+ papers** that have **957+** citations (h-index=12). This includes:
11+ papers as **(co-)lead author** with 307+ citations
6+ papers with **significant contributions** with 262+ citations

Most of my papers can be found online on ADS, though citations outside astronomy are missing. My ORCID is 0000-0002-6561-9002.

Publications as (Co-)Lead Author:

1. **Saydjari, A. K.** & Green, G. M.
   2025, arXiv:2507.07162 (submitted ApJ) Postdoc
   Correlations between Dust Extinction Features across All Wavelength Scales: From Diffuse Interstellar Bands to R(V)
2. Zucker, C. & **Saydjari, A. K.** & Speagle, J. S.; Schlafly, E. F.; Green, G. M.; Benjamin, R.; Peek, J. E. G.; Edenhofer, G.; Goodman, A.; Kuhn, M. A.; Finkbeiner, D. P.
   2025, arXiv:2503.02657 (submitted ApJ) Postdoc
   A Deep, High-Angular Resolution 3D Dust Map of the Southern Galactic Plane
3. **Saydjari, A. K.**; Finkbeiner, D. P.; Wheeler, A. J.; Holtzman, J. A.; Wilson, J. C.; Casey, A. R.; Sánchez-Maes, S.; Brownstein, J. R.; Hogg, D. W.; Blanton, M.
   2025, ApJ, 169, 19. Postdoc
   Improving Radial Velocities by Marginalizing over Stars and Sky: Achieving 30 m/s RV Precision for APOGEE in the Plate Era
4. **Saydjari, A. K.**; Uzsoy, A.S.; Zucker, C.; Peek, J. E. G.; Finkbeiner, D. P.
   2023, ApJ, 954, 141. Grad
   Measuring the 8621 Å Diffuse Interstellar Band in Gaia DR3 RVS Spectra: Obtaining a Clean Catalog by Marginalizing over Stellar Types
5. **Saydjari, A. K.**; Schlafly, E. F.; Lang, D.; Meisner, A. M.; Green, G. M.; Zucker, C.; Zelko, I.; Speagle, J. S.; Daylan, T.; Lee, A.; Valdes, F.; Schlegel, D.; Finkbeiner, D. P.
   2023, ApJS, 264, 2. Grad
   The Dark Energy Camera Plane Survey 2 (DECaPS2): More Sky, Less Bias, and Better Uncertainties
6. **Saydjari, A. K.**; Finkbeiner, D. P.
   2022, ApJ, 933, 155. Grad
   Photometry on Structured Backgrounds: Local Pixel-wise Infilling by Regression
7. **Saydjari, A. K.**; Finkbeiner, D. P.
   2022, TPAMI, 45, 2. Grad
   Equivariant Wavelets: Fast Rotation and Translation Invariant Wavelet Scattering Transforms
8. **Saydjari, A. K.**; Portillo, S. K. N.; Slepian, Z.; Kahraman, S.; Burkhart, B.; Finkbeiner, D. P.
   2021, ApJ, 910, 122. Grad
   Classification of Magnetohydrodynamic Simulations using Wavelet Scattering Transforms

9. **Saydjari, A. K. & Weis, P.**; Wu, S.
   2016, Adv. Energy Mat., 7, 1601622. Undergrad
   Spanning the Solar Spectrum: Azopolymer Solar Thermal Fuels for Simultaneous UV and Visible Light Storage
   Cover Article: AEM
10. **Saydjari, A. K.**; Pietron, J. J.; Simpkins, B. S.
   2015, Electroanalysis., 27, 1960-1967. HS
   Electrochemical Deposition and Spectroelectro-chemical Response of Bromophenol Blue Films on Gold
11. **Saydjari, A. K.**; Long, J.; Dressick, W.; Simpkins, B. S.
   2014, Chem. Phys. Lett., 608, 328-333. HS
   Optical Interference Effect Corrections for Absorbance Spectra of Layer-by-Layer Thin Films Bearing Covalently Bound Dye

Publications with Significant Contributions:

12. Uzsoy, A. M.; **Saydjari, A. K.;** et al. [38 additional co-authors]
   2025, arXiv:2503.03138 (submitted AJ) Postdoc
   Bayesian Component Separation for DESI LAE Automated Spectroscopic Redshifts and Photometric Targeting
   Co-advised the application of MADGICS to DESI spectra (prior refinement, error calibration, etc.)
13. Lesser, O.; **Saydjari, A. K.;** Wesson M.; Yacoby, A.; Oreg, Y.
   2021, PNAS, 118, 27. Grad
   Phase-induced topological superconductivity in a planar heterostructure
   Designed and ran experiments in Kwant to show applicability for realistic device densities.
14. Alegria, L.D.; Bøttcher, C.G.; **Saydjari, A. K.;** Pierce, A.T.; Lee, S.H.; Harvey, S.P.; Vool, U.; Yacoby, A.;
   2021, Nature Nanotechnology, 16, 404-408. Grad
   High-energy quasiparticle injection into mesoscopic superconductors
   Helped fabricate devices, collected data on dil. fridge I operated, and analyzed data/models.
15. Charboneau, D.J.; Brudvig, G.W.; Hazari, N.; Lant, H.M.C; **Saydjari, A. K.**
   2019, ACS Catal., 9, 3228-3241. Undergrad
   Development of an Improved System for the Carboxylation of Aryl Halides through Mechanistic Studies
   M.Sc. thesis work. Designed experiments, worked up reactions and NMR, analyzed data.
16. McKee, A.; Solano, M.; **Saydjari, A. K.;** Bennett, C.J.; Hud, N.V.; Orlando, T.M.
   2018, ChemBioChem, 19, 1-6. Undergrad
   A Possible Path to Prebiotic Peptides Involving Silica and Hydroxy Acid-Mediated Amide Bond Formation
   Cover Article: ChemBioChem
   Designed/ran cycling experiments, analyzed MS/MS spectra, wrote first manuscript.
17. Wang, D.; Wagner, M.; **Saydjari, A. K.**; Wu, S.; Butt, H.
   2017, Chem. Eur. J., 23, 2628-2634. Undergrad
   A Photoresponsive Orthogonal Supramolecular Complex Based on Host–Guest Interactions
   Lead quantum chemical simulations determining molecular geometry key to HG interaction.

Publications as a Contributing Author:

18. Otto, J. M. [17 additional co-authors including **Saydjari, A. K.]**
    2025, arXiv:2507.07264 Postdoc
    The Open Cluster Chemical Abundances and Mapping Survey: VIII. Galactic Chemical Gradient and Azimuthal Analysis from SDSS/MWM DR19
19. SDSS Collaboration. [211 additional co-authors including **Saydjari, A. K.]**
    2025, arXiv:2507.07093 Postdoc
    The Nineteenth Data Release of the Sloan Digital Sky Survey
20. Kollmeier, J.A. [438 additional co-authors including **Saydjari, A. K.]**
    2025, arXiv:2507.06989 Postdoc
    Sloan Digital Sky Survey-V: Pioneering Panoptic Spectroscopy
21. Mészáros, S. [27 additional co-authors including **Saydjari, A. K.]**
    2025, arXiv:2506.07845 (submitted ApJ) Postdoc
    SDSS-V Milky Way Mapper (MWM): ASPCAP Stellar Parameters and Abundances in SDSS-V Data Release 19
22. Stone-Martinez, A. [6 additional co-authors including **Saydjari, A. K.]**
    2025, AJ, 170, 2, 66. Postdoc
    StarFlow: Leveraging Normalizing Flows for Stellar Age Estimation in SDSS-V DR19
23. Speagle, J. S. & Zucker, C. [17 additional co-authors including **Saydjari, A. K.]**
    2025, arXiv:2503.02227 (submitted ApJ) Grad
    Deriving Stellar Properties, Distances, and Reddenings from Photometry and Astrometry with BRUTUS
    Provided feedback during method development, and on publication/code-base.
24. Zhou, R. [56 additional co-authors including **Saydjari, A. K.]**
    2025, OJA, 8, 001c.141680. Postdoc
    Stellar reddening map from DESI imaging and spectroscopy
    Aided in map validation, data-release, reddening methods, and provided internal DESI review.
25. Speagle, J. S. & Zucker, C. [17 additional co-authors including **Saydjari, A. K.]**
    2024, ApJ, 2, 121. Grad
    Mapping the Milky Way in 5-D with 170 Million Stars
    Provided feedback during method development, and on publication/code-base.
26. Edenhofer, G. [7 additional co-authors including **Saydjari, A. K.]**
    2023, A&A, 685, A82. Grad
    A Parsec-Scale Galactic 3D Dust Map out to 1.25 kpc from the Sun
    Aided in map validation, data-release, securing compute, and consulted on methods development.
27. Zasowski, G. [152 additional co-authors including **Saydjari, A. K.]**
    2023, ApJS, 267, 44. Grad
    The Eighteenth Data Release of the Sloan Digital Sky Surveys: Targeting and First Spectra from SDSS-V
    Key APOGEE pipeline team member and led dust group DIB catalog and reddening efforts.
28. Cantat-Gaudin, T. et al. [13 additional co-authors including **Saydjari, A. K.]**
    2023, A&A, 669, A55. Grad
    An empirical model of the Gaia DR3 selection function
    Created DECaPS2 (and high-resolution coverage maps) that were the underlying comparison used in deriving the empirical selection function.

Non-Refereed

Publications as a Contributing Author:

29. Sayres, C. et al. [12 additional co-authors including **Saydjari, A. K.]**
    2022, Proceedings of the SPIE, 12184 Grad
    SDSS-V robotic focal plane system: overview of coordinate systems and transforms
    Developed regularized fits to improve focal plane coordinate transform.

White Papers with Significant Contributions:

30. Han, J.J. et al. [208 additional co-authors including **Saydjari, A. K.]**
    2023, arXiv:2306.11784. Grad
    NANCY: Next-generation All-sky Near-infrared Community surveY
    Lead (wrote) the dust/reddening applications section.
31. Paladini, R. et al. [69 additional co-authors including **Saydjari, A. K.]**
    2023, arXiv:2307.07642. Grad
    Roman Early-Definition Astrophysics Survey Opportunity: Galactic Roman Infrared Plane Survey (GRIPS)
    (Co)-Developed crowded field photometry codes necessary for successful photometry in the plane.