

ANDREW K. SAYDJARI

Graduate Student | Harvard Physics

andrew-saydjari.github.io | andrew.saydjari@cfa.harvard.edu | he/him/his

PUBLICATIONS

I am an author on **19+ papers** that have **409+** citations (h-index=11). This includes:

8+ papers as (co-)lead author with 183+ citations

5+ papers with **significant contributions** with 187+ citations

Most of my papers can be found online on [ADS](#), though citations outside astronomy are missing.

My ORCID is [0000-0002-6561-9002](https://orcid.org/0000-0002-6561-9002).

Publications as (Co-)Lead Author:

1. 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](#)
2. 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](#)
3. Saydjari, A. K.; Finkbeiner, D. P.
2022, ApJ, 933, 155. Grad
[Photometry on Structured Backgrounds: Local Pixel-wise Infilling by Regression](#)
4. Saydjari, A. K.; Finkbeiner, D. P.
2022, TPAMI, 45, 2. Grad
[Equivariant Wavelets: Fast Rotation and Translation Invariant Wavelet Scattering Transforms](#)
5. 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](#)
6. 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](#)
7. 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](#)
8. 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:

9. Lesser, O.; **Saydjari, A. K.**; Wesson M.; Yacoby, A.; Oreg, Y.
2021, PNAS, 118, 27. Grad
[Phase-induced topological superconductivity in a planar heterostructure](#)
10. Alegria, L.D.; Böttcher, 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](#)
11. 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](#)
12. 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](#)
13. 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](#)

Publications as a Contributing Author:

14. Edenhofer, G. [7 additional co-authors including **Saydjari, A. K.**]
2023, arXiv:2308.01295 (submitted A&A) Grad
[A Parsec-Scale Galactic 3D Dust Map out to 1.25 kpc from the Sun](#)
15. 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](#)
16. 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](#)
17. Speagle, J. S. & Zucker, C. [17 additional co-authors including **Saydjari, A. K.**]
2021, (accepted ApJ) Grad
Mapping the Milky Way in 5-D with 170 Million Stars at High Galactic Latitudes
18. Speagle, J. S. & Zucker, C. [17 additional co-authors including **Saydjari, A. K.**]
2021, (submitted ApJ) Grad
Deriving Stellar Properties, Distances, and Reddenings from Photometry and Astrometry with brutus.

Non-Refereed

Publications as a Contributing Author:

19. 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](#)

White Papers with Significant Contributions:

20. 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 surveyY](#)
21. 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 \(GRIPS\)](#)