

# ANDREW K. SAYDJARI

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## SELECTED PRESENTATIONS

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I have given **52+** public science talks. Highlights include:

### Invited Colloquia

UW-Madison Colloquium	March 2025
Mapping Milky Way Dust in n-Dimensions	
Origins Colloquium (UVA/Chalmers)	February 2025
Mapping Milky Way Dust in n-Dimensions	
NMSU Colloquium	January 2025
Mapping Milky Way Dust in n-Dimensions	
NYU CCPP Seminar	November 2024
The Spatial, Kinematic, and Chemical Complexity of Dust	

### Invited Talks

NASA NHFP Symposium 2025	October 2025
Correlations between Extinction Features across Wavelength Scales: Realizing Diffuse Interstellar Bands as Chemical Tracers	
Princeton Astrophysical Sciences Advisory Council Meeting	May 2025
Galactic Cartography: Dust in 3D and Beyond	
Roman GPS Community Workshop	February 2025
Optimizing the Galactic Plane Survey Filter Selection	
NASA NHFP Symposium 2024	September 2024
The Highest Angular Resolution 3D Dust Map (and Why Bayesian Component Separation Methods are Crucial)	
Galactic Science with the Nancy Grace Roman Space Telescope	June 2024
The DECam Plane Survey as a Roman Galactic Plane Survey Pathfinder	
Center for Astrophysics (CFA) Advisory Council Meeting	October 2022
The DECam Plane Survey	
JSM 2022: Astrostatistics Interest Group: Student Paper Award	August 2022
Photometry on Structured Backgrounds: Local Pixelwise Infilling by Regression	

### Contributed Conference Talks

Dusty Universe: The 5 <sup>th</sup> Pan-Dust Conference	Nov 2025
Correlations between Extinction Features across Wavelength Scales: Realizing Diffuse Interstellar Bands as Chemical Tracers	
JuliaCon Global	July 2025
Building an End-to-End Spectral Reduction Pipeline for APOGEE	
Interstellar Institute #7: Interstellar Physics Across Scales	July 2025
Reconstructing the 3D+1V Velocity Field of the Milky Way from Dust Absorption	
Sloan Digital Sky Survey V (SDSS-V) Collaboration Meeting	June 2025

Mapping ISM Chemistry and Kinematics with APOGEE DIBs	
ApogeeReduction.jl: An APOGEE Reduction Pipeline for the AS5 Era	
PRIMA and the Future of Far-Infrared Science	May 2025
The Case for A PRIMA All-Sky Polarized Dust Map (and Point Source Catalog)	
AAS 245: Dust (Dissertation Talk)	Jan 2025
The Highest Angular Resolution 3D Dust Map	
DESI Collaboration Meeting	December 2024
The Diffuse Galactic Light Spectrum: Using DESI Sky Fibers for Science	
New Computational Methods in Milky Way Dynamics and Structure @ Ringberg	July 2024
Bayesian Component Separation for Ground Based Spectra: Transforming Diffuse Interstellar Bands into Precision Kinematic Tracers	
Sloan Digital Sky Survey V (SDSS-V) Collaboration Meeting	June 2024
Diffuse Interstellar Bands in APOGEE: Unlocking Precision Dust Kinematics	
Sloan Digital Sky Survey V (SDSS-V) Collaboration Meeting	August 2023
A New MWM Pipeline: Separating APOGEE Spectra into Components	
Statistical Challenges in Machine Learning and Astrophysics (SCMA) VIII	June 2023
Measuring the 8621 Å Diffuse Interstellar Band in Gaia DR3 RVS Spectra:	
Obtaining a Clean Catalog by Marginalizing over Stellar Types	
RAS Specialist Discussion: 1D ML	March 2023
Measuring the 8621 Å Diffuse Interstellar Band in Gaia DR3 RVS Spectra	
AAS 241: Dust	January 2023
Measuring the 8621 Å Diffuse Interstellar Band in Gaia DR3 RVS Spectra	
DECam at 10 Years Workshop	September 2022
The Dark Energy Camera Plane Survey 2 (DECaPS2): More Sky, Less Bias, and Better Uncertainties	
Interstellar Institute #5: With Two Eyes	July 2022
Component Separation: An Application to Gaia RVS and APOGEE Spectra	
AAS 240: Computation, Data Handling, Image Analysis	June 2022
The DECam Plane Survey (DECaPS2): Optical photometry of 3.3 billion stars in the southern Galactic plane	
APS: March Meeting	March 2019
Enhancing Superconductivity in Indium Arsenide Quantum Well Heterostructures	
<b>Seminars, Lunch Talks, &amp; Journal Clubs</b>	
Columbia: Pizza Chalk Talk	February 2025
The Spatial, Kinematic, and Chemical Complexity of Dust	
IAS: Bahcall Lunch	November 2024
The Highest Angular Resolution 3D Dust Map	
CFA: Institute for Theory and Computation (ITC), Keto Award Seminar	May 2024
The Spatial, Kinematic, and Chemical Complexity of Dust	
Caltech: Obscos Seminar	October 2023
Probabilistic Component Separation: Deconstructing Photometric and Spectroscopic Pipelines	
Princeton: Thunch	September 2023
Probabilistic Component Separation: Deconstructing Photometric and Spectroscopic Pipelines	
UWSeattle: Astro Lunch	April 2023
Probabilistic Component Separation: Deconstructing Photometric and Spectroscopic Pipelines	

STScI: Low Density Universe Seminar	April 2023
Measuring the 8621 Å Diffuse Interstellar Band in Gaia DR3 RVS Spectra	
CIELA: Astromérique Seminar (Montreal)	February 2023
Measuring the 8621 Å Diffuse Interstellar Band in Gaia DR3 RVS Spectra	
CHASC: Astrostatistics Seminar	January 2023
Measuring the 8621 Å Diffuse Interstellar Band in Gaia DR3 RVS Spectra	
CFA: Institute for Theory and Computation (ITC) Lunch	October 2022
The Dark Energy Camera Plane Survey 2 (DECaPS2): More Sky, Less Bias, and Better Uncertainties	
CFA: Institute for Theory and Computation (ITC) Lunch	March 2022
Photometry on Structured Backgrounds	
University of Toronto: Statistics and Machine Learning (SMILE) Journal Club	February 2022
Photometry on Structured Backgrounds	
IAS: Pan-Experiment Galactic Science Group	July 2021
Learning from ISM Texture using the Wavelet Scattering Transform	
LPENS: AstroLunch	December 2020
Scattering Transform Methods: Applications to Galactic Dust	

## Flash Talks & Posters

AAS 243: Data Tools and Open Science	January 2024
Separating Ground-based Spectra into Components: Marginalizing over Sky and Dust	
DESI Collaboration Meeting	December 2023
Surveying the Milky Way: The Universe in Our Own Backyard	October 2023
Sloan Digital Sky Survey V (SDSS-V) Science Festival	November 2022
Smithsonian Astronomical Observatory (SAO) Advisory Council	November 2022
Institute for Artificial Intelligence and Fundamental Interactions (IAIFI)	September 2022
Seeing the Future: A Conference in Honour of Alyssa Goodman	May 2022
Harvard-Heidelberg Star Formation Conference	November 2020
Center for Integrated Quantum Materials (CIQM)	October 2019