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SELECTED PRESENTATIONS

I have given **56+ public science talks**. Highlights include:

Invited Colloquia

Wesleyan Colloquium   Feburary 2026
    Spectral Shadows of Structure at Scale: Chemokinematic Cartography of the Milky Way
NMSU Colloquium   November 2025
    Spectral Shadows of Structure at Scale: Chemokinematic Cartography of the Milky Way
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

AAS 247 PRIMA Special Session   January 2026
    PRIM(All): An All-Sky, Polarized, FIR Dust Map and Point-Source Catalog
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 5th 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

Seminars, Lunch Talks, & Journal Clubs

Pan-Experiment Galactic Science Group   December 2025
  Correlations between Extinction Features across Wavelength Scales: Realizing Diffuse Interstellar
  Bands as Chemical Tracers

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