JENNIFER SOBECK

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	Seattle WA, 98117 Phone +1 (312) 515-3982	Website https://jsobeck.g Github https://github.co ORCID 0000-0002-4988	m/jsobeck	
RESEARCH INTERESTS	Stellar Populations; Chemodynamical Evolution; Nucleosynthesis; Fundamental Stellar Astrophysical Parameters; Spectroscopy Large-Scale Astronomical Surveys; Data-Driven Analysis; Open and Reproducible Research Pratices			
EDUCATION	PhD in Physics – University of Texas at Austin An Atomic Physics Viewpoint of Stellar Abundance Analysis		2007	
	MS in Physics – University of Texas at Austin Gas Phase Enthalpy Difference Between the Two PS in Physics – University of Texas Austin	Conformers of n-Butane	2004	
	BS in Physics – University of Texas at Austin			
RESEARCH POSITIONS	MSE System Scientist Maunakea Spectroscopic Explorer; Canada Fran	nce Hawaii Telescope	Feb 2021 – Present	
	SDSS-IV Project Manager for APOGEE-2 & LCC Sloan Digital Sky Survey IV	Operations	Nov 2018 – Feb 2021	
	Senior Research Scientist Department of Astronomy, University of Washing	ton	Mar 2017 – Feb 2021	
	APOGEE-2 Project Manager/Deputy Project Mar Sloan Digital Sky Survey IV		Oct 2013 – Nov 2018	
	Senior Scientist/Research Associate Department of Astronomy, University of Virginia		Oct 2013 – Mar 2017	
	External Postdoctoral Scholar Department of Astronomy and Astrophysics, University	versity of Chicago	Jan 2012 – Dec 2013	
	CNRS Postdoctoral Scholar Laboratoire Lagrange, Observatoire de la Cote d	''Azur	Dec 2011 – Jan 2013	
	Kavli Institute for Cosmological Physics Associate Department of Astronomy and Astrophysics, University		Jun 2010 – Dec 2012	
	JINA Postdoctoral Scholar Joint Institute for Nuclear Astrophysics		Oct 2008 – Dec 2011	
	Department of Astronomy and Astrophysics, Unit DGDF Postdoctoral Fellow	versity of Chicago	2007, 2008	
	European Southern Observatory, Garching, Geri	many		
TEACHING POSITIONS	Assistant Instructor Software Carpentry		2020, 2022, 2023	
	Guest Lecturer Department of Astronomy, University of Washing	ton	2018, 2019	
	Assistant Instructor Department of Astronomy, University of Texas at		2004 – 2005	
	Assistant Instructor Department of Physics, University of Texas at Au		2003 – 2004	
	Teaching Assistant Department of Physics, University of Texas at Au		2000 – 2003	

GRANTS AND AWARDS

SDSS-IV Architect 2020 e-Science Institute Incubator Project (PI) 2018

NSF Astronomy and Astrophysics Research Grants (Collab/Co-I) AST 0607708, 0907732, 1715898 Sloan Foundation Grant (Collaborator/Co-I) 2013, 2015 2015

University of Virginia Center for Global Inquiry & Innovation Grant (Co-I)

STScI Hubble Space Telescope Approved GO/AR Program Grants (Co-I) Cycles 18, 19, 20, 23

PUBLICATIONS

Overview:

To date, I have 185 Astronomy- and Physics-related publications (90 Refereed; 95 Non-Refereed). NASA ADS Author Query (Link)

Selected Publications:

[1] Hayes, C. R., Masseron, T., Sobeck, J. S., et al. 2022, ApJSS, 262, 34H [doi:10.3847/1538-4365/ac839f]

"BACCHUS Analysis of Weak Lines in APOGEE Spectra (BAWLAS)"

[2] Beaton, R. L., Oelkers, R. J., Hayes, C. R., Covey, K. R., Chojnowski, S. D., De Lee, N., Sobeck, J. S., et al. 2021, AJ, 162, 302 [doi:10.3847/1538-3881/ac260c]

"Final Targeting Strategy for the Sloan Digital Sky Survey IV Apache Point Observatory Galactic Evolution Experiment 2 North Survey"

[3] Johnson, J. A., Zasowski, G., Weinberg, D., Ting, Y.S., Sobeck, J., et al. 2019, arXiv: 1907.04388 "The Origin of Elements Across Cosmic Time : Astro2020 Science White Paper"

[4] Sobeck, J. S., Kraft, R. P., Sneden, C., et al. 2011, AJ, 141, 175 [doi:10.1088/0004-6256/141/6/175] [code] "The Abundances of Neutron-capture Species in the Very Metal-poor Globular Cluster M15: A Uniform Analysis of Red Giant Branch and Red Horizontal Branch Stars"

TALKS AND **PRESENTATIONS**

Overview:

I have given more than 50 presentations on a variety of subjects (science, survey planning/management, teaching, instrumentation, software/coding, and outreach) in multiple forums over my career.

Selected Talks:

Invited Discussion/Moderator, Supporting Computational Science with Rubin LSST	
Invited Talk, LSST Project and Community Workshop	
Project Presentation, eScience Institute, University of Washington	
Talk, Google (Seattle)	2017
Colloquium, University of Washington	2017
Invited Talk, AAS Winter Meeting	2015

OBSERVING AND

Apache Point Observatory - 2.5-m Sloan Foundation Telescope and 1.0-m NMSU Telescope

INSTRUMENTATION European Southern Observatory – 8.0-m Very Large Telescope (Kuyeun)

Hubble Space Telescope - STIS Instrument

Kitt Peak National Observatory – 1.6-m McMath-Pierce Telescope

Las Campanas Observatory - 6.5-m Magellan Telescope and 2.5-m Irenee du Pont Telescope McDonald Observatory – 9.2-m Hobby-Eberly Telescope, 2.7-m Harlan J. Smith Telescope

University of Wisconsin Madison, Lawler Laboratory - LIF Experiment

University of Virginia, Infrared Instrumentation Laboratory – Spectrograph Build & Commissioning

RESEARCH **MENTORSHIP**

Postdoctoral Researchers: C. Hayes (UW), G. Damke (UVa), N. Shane (UVa)

Graduate Students: Y. Kim (UChicago)

Undergraduate Students: D. Hunt (UW), G. Schafer (UW), J. Skipper (UVa), M. Alvarez (UT Austin)

Programming Proficient: Python, IDL, Fortran **SKILLS**

Familiar: R, Matlab, Mathematica, C++

Proficient : LATEX, Unix, Git SOFTWARE

Familiar: SQL, Solidworks

English (fluent), French (proficient) LANGUAGES

SOFTWARE

MOOG (url)

Sneden, C., Bean, J., Ivans, I., Lucatello, S., & Sobeck, Jennifer, MOOG: LTE Line Analysis and CONTRIBUTIONS

Spectrum Synthesis, Astrophysics Source Code Library, 2009 (2012ascl.soft02009S)

PROFESSIONAL AFFILIATIONS

ARC Centre of Excellence for All Sky Astrophysics in 3 Dimensions (ASTRO 3D)

eScience Institute at the University of Washington

Large Synoptic Survey Telescope

Sloan Digital Sky Survey

2020 - Present 2018 - Present

2014 – Present 2009 – Present

SERVICE NSF AAG Proposal Review Panelist

NSF AAPF Proposal Review Panelist

NASA APRA-SAT Proposal Review Panelist and Panel Chair

STScI HST Proposal Review Panelist Astrophysical Journal Referee Astrophysical Letters Journal Referee Astronomy & Astrophysics Referee

Journal of Physics B: Atomic, Molecular & Optical Physics Referee

Monthly Notices of the Royal Astronomical Society Referee

United States Congressional Visits Day, Science, Engineering, & Technology

OUTREACH

MAGIC (More Active Girls in Computing) Mentor

Skype a Scientist

SDSS-IV Education and Public Outreach (EPO) and Faculty and Student Team (FAST)

SDSS-IV Committee on Inclusiveness in SDSS (COINS)

SDSS Plates for Education

Astro on Tap, University of Washington

UW in the High School : Astronomy Training for Teachers, University of Washington

Public Night Program at McCormick and Fan Mountain Observatories, University of Virginia

Dark Skies Bright Kids, University of Virginia Space Visualization Laboratory, Adler Planetarium

Space Explorers, University of Chicago

PROFESSIONAL SOCIETIES

American Astronomical Society American Physical Society Canadian Astronomical Society International Astronomical Union

REFERENCES

Dr. Michael Blanton (NYU)
Dr. Steven Majewski (UVa)
Dr. Chris Sneden (UT Austin)
Dr. Sam Barden (CFHT)

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