

Kristen Luchsinger - CV

New Mexico State University
Astronomy Department
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Education

Wesleyan University, Middletown, CT

MA, Astronomy, 05/2017.

Concentration: Planetary Science

Thesis: “Blue Skies Through a Blue Sky: An Attempt To Detect Rayleigh Scattering in the Atmospheres of Extrasolar Planets From a Ground-Based Telescope”

St. John’s College, Annapolis, MD

B.A., Liberal Arts, 05/2015.

Majors: History of Math and Science, Philosophy

Minors: Classical Studies, Comparative Literature

Thesis: “The Role of Beauty in Science as seen in the Einstein, Podolsky, and Rosen Paper and Responses to it Within the Context of Quantum Theory”

Employment

New Mexico State University, 2017-present

Graduate Teaching and Research Assistant

Advisor: Dr. Nancy Chanover

Project: Vertical Ice Migration within Seasonally Shadowed Regions

Wesleyan University, 2016-2017

Graduate Teaching and Research Assistant

Advisor: Dr. Seth Redfield

Project: Rayleigh Scattering in Exoplanet Atmospheres

National Radio Astronomy Observatory, Summer 2014

Undergraduate Research Assistant

Advisor: Dr. Mark Lacy

Project: Submillimeter Radio Emission in Distant Galaxies

Refereed

Publications

“The Host Galaxies of Micro-Jansky Radio Sources”

Luchsinger, K.M., Lacy, M., Jones, K. M., et al., 2015, AJ, 150, 87

“Water Within a Permanently Shadowed Lunar Crater: Further LCROSS Modeling and Analysis”

Luchsinger, K.M., Chanover, N.J., & Strycker, P.D.; 2021, Icarus, 354, 114089.

Conference Presentations	Oral and Poster Presentations at Lunar and Planetary Science Conference
	“Digging Deeper: Further analysis and modelling of the LCROSS debris plume”, Poster presentation, March 2018
	“Using ground based observations of the LCROSS impact plume to investigate water ice stratification within permanently shadowed lunar sediment”, Oral presentation, March 2019
	Poster Presentations at American Astronomical Society Meetings
	“Submillimeter Radio Emmission in Distant Galaxies” January 2015
	“Blue Skies Through a Blue Sky: An Attempt To Detect Rayleigh Scattering in the Atmospheres of Extrasolar Planets From a Ground-Based Telescope” Janurary 2017
	Poster Presentation at Division of Planetary Science Conference
	“Investigating stratification of lunar regolith through modeling of the ground based detection of the LCROSS debris plume light curve” October 2018
	Poster Presentation at NASA Exploration Science Forum
	“Using LCROSS as a Template for Future Impact Missions: Probing Sediment and Volatile Stratification” July 2019
	“Pushing the boundaries of lunar ice: the effects of vertical volatile transport in seasonally shadowed regions” July 2020
Awards and Fellowships	Chambliss Award for Poster Presentation
	225th AAS Meeting, 2015
	SSERVI Student Poster Award, Third Place
	NASA Exploration and Science Forum 2020
	New Mexico Space Grant Graduate Research Fellowship
	Funding awarded for the Spring and Fall 2018 semesters in support of research modeling plumes on Solar System satellites; renewed for the Spring and Fall 2019 semesters.
Teaching Experience	Teaching Assistantships
	ASTR 105G, The Planets, Fall 2019 and Spring 2020
	ASTR 110G, Introduction to Astronomy, Fall 2017 and Spring 2018
	ASTR 155, Introduction to Astrophysics, Fall 2015
	ASTR 103, The Planets, Spring 2015 and 2016
	ASTR 105, Exploring the Cosmos, Fall 2016
Languages	Python, IDL, C++, Fortran, Mathematica, L ^A T _E X