Contact Information	Fermilab PO Box 500 MS 209 Batavia, IL 60510-5011	<i>E-mail:</i> adama@fnal.gov <i>Phone:</i> (503)-380-0689	
Employment and Education	Fermilab, Wilson Fellow	2019-pres	sent
	University of Chicago, Department of Astronomy and Astrophysics, CASE Associate 2021-present		
	<b>Fermilab,</b> Lederman Postdoctoral Fellow Advisor: Bradford Benson	2015-2	019
	Massachusetts Institute of Technology, F Advisor: Enectalí Figueroa-Feliciano	Ph.D., Physics <b>2010-2</b>	015
	<b>University of Chicago,</b> A.B., Physics, Math Advisor: Ed Blucher	nematics, with honors 2006-2	010
Awards and	DOE Office of Science Graduate Fellows	hip 2012-2	015
Honors	NSF Graduate Research Fellowship, decl	lined <b>2012-2</b>	015
	<b>Presidential Fellowship</b> , MIT	2010-2	011
	Lewis Prize, University of Chicago, Dept. of	Physics 2	010
	Phi Beta Kappa	2	010
	Grainger Fellowship, University of Chicago		010
	College Honor Scholarship, University of C	Chicago 2006-2	010
TEACHING	Organizer of summer student lecture series, SPT collaboration Summer 2021		
	Seminar XL lead facilitator, $MIT$	Fall 2	011
	College Core Tutor, University of Chicago	September 2008-June 2	010
Grad Students Mentored	Kyle Ferguson (UCLA): Search for axions with	h SPT-3G <b>2020-2</b>	022
	Andrea Bryant (Chicago): GEM intern at Fer	milab Summer 2	017
Undergraduates Mentored	Ebtihal Abdelaziz (Goshen): SIST intern at F	ermilab Summer 2	021
	Taryn Imamura (Stanford $\rightarrow$ PhD, Carnegie Mellon): SIST intern at Fermilab Summer 2018		
	Josémanuel Hernandez (Northwestern $\rightarrow$ SM, UChicago): SIST intern at Fermilab Summer 2018		
	Cory Cotter (Wisconsin $\rightarrow$ PhD, Chicago): SU	ULI intern at Fermilab Summer 2	017
	AJ Corso (Chicago $\rightarrow$ PhD, UPenn): summer	research Summer 2	016
	Chandler Schlupf (MIT $\rightarrow$ PhD, UCLA): URO	OP research, senior thesis 2012-2	014
	Natalia Guerrero (MIT $\rightarrow$ PhD, Royal Hollow	ray): UROP research Spring 2	012

High-School Students Mentored	Arielle Pfeil: QuarkNet intern at Fermilab Antony Simonoff: QuarkNet intern at Fermilab Ben Hardin: QuarkNet intern at Fermilab Ryan Thornton: QuarkNet intern at Fermilab	Summer 2017 Summer 2017 Summer 2016 Summer 2016	
Funding History	co-PI, Fermilab internal LDRD 2021-2023: \$683,314 High-throughput quantum sensors and materials testing at ultra-low (project within ORNL-led Quantum Science Center), DOE Office of 2021-2025: \$4,149,980	2023: \$683,314 -throughput quantum sensors and materials testing at ultra-low temperature ect within ORNL-led Quantum Science Center), DOE Office of Science	
	Mass-Produced Detector Modules for Future Cosmic Microwave Background Experi- ments PI, Fermilab internal LDRD 2021-2023: \$659,706 Development of Background-Limited MKIDs for Microwave Cosmology		
	PI, Fermilab internal LDRD 2020: \$50,000 Development of Microwave Readout Electronics for Massively Multiplexed Transition-Edge Sensors PI, Fermilab internal LDRD 2019 - 2022: \$424,197		
Conferences and Talks	COSMO-21, poster: South Pole Telescope: Survey Status and Future Instruments August 2021		
	DPF-21 Meeting, contributed talk: SPT-SLIM: Intensity Mapping Pathfinder with the South Pole Telescope July 2021		
	CPAD Instrumentation Frontier Workshop 2021, contributed talk: Mapping the CMB at High-Frequency with Kinetic Inductance Detectors on the South Pole Telescope March 2021		
	Perimeter Institute: Particle Physics Seminar:CMB with SPT-3G: Recent Results and Constraining Axions with CMB Polarization RotationJune 2020		
	SLAC, KIPAC Tea Talk: SPT-3G: High-Resolution CMB Science at the South Pole April 2020		
	CPAD Instrumentation Frontier Workshop 2019, contributed talk: <i>KIDs for Next-Generation CMB Experiments</i> December 2019		
	Topics in Cosmic Neutrino Physics, plenary talk: Prospects for Neutrino Physics with SPT-3G and Future CMB ExperimentsOctober 2019		
	Low-Temperature Detectors 18, poster: Performance of Al-Mn Transition-Edge Sensor Bolometers in SPT-3G July 2019		
	Fermilab, Particle Astrophysics Seminar: SPT-3G and Next-Generation CMB Exper- iments April 2019		
	University of Toronto, Astro Seminar: Probing Fundamental Physics with the South Pole Telescope and Beyond February 2019		
	Rencontres de Blois, parallel talk: SPT-3G and Recent Results fro Telescope	m the South Pole June 2018	

	Low-Temperature Detectors 17, plenary talk: SPT3G: A Multicht South Pole Telescope	roic Receiver for the July 2017	
	Princeton University, Gravity Group Seminar: SPT3G: Deployme New Camera for the South Pole Telescope	ent and Science of a April 2017	
	8th INFIERI Workshop, plenary talk: SPT3G: A New Receiver Telescope	for the South Pole October 2016	
	University of Michigan, HEP/Astro/Nuclear Seminar: SPT3G: F with a New Receiver for the South Pole Telescope	Cundamental Physics September 2016	
	Fermilab Users Meeting, plenary talk: Cosmology with the South	Pole Telescope June 2016	
	Yale University, Weak Interactions Discussion Group: Light WIM trinos with Cryogenic Detectors	Ps and Sterile Neu- May 2015	
	Lawrence Berkeley National Lab, Research Progress Meeting: Ext SuperCDMS for Dark Matter Searches	tending the Reach of <b>December 2014</b>	
	International Conference on Particle Physics and Cosmology, paral Analysis of Data from SuperCDMS Soudan	lel talk: Low-Energy August 2014	
	Brookhaven National Lab, Particle Physics Seminar: Probing Lig $perCDMS$	ht WIMPs with Su- May 2014	
	APS April Meeting, contributed talk: Backgrounds and Discrimin Low-energy SuperCDMS Soudan Data	ation Algorithms for April 2014	
	Rencontres de Moriond, Electroweak, plenary talk: Constraints on SuperCDMS	n Light WIMPs with March 2014	
	Low-Temperature Detectors 15, poster: Phonon Event Analysis in Detectors	in SuperCDMS iZIP June 2013	
	APS April Meeting, contributed talk: Underground Performance Detectors	of SuperCDMS iZIP April 2013	
	Rencontres de Moriond, Electroweak, student talk: <i>Coherent Neur</i> <i>Cryogenic Semiconductor Detectors</i>	trino Scattering with March 2012	
	Low-Temperature Detectors 14, poster: Simulations of Phase-Se Edge Sensors for SuperCDMS	eparated Transition- August 2011	
	APS April Meeting, contributed talk: Simulations of Transition-EperCDMS	Edge Sensors for Su- May 2011	
Professional Service	Referee for: Applied Physics Letters, Journal of Cosmology and Astroparticle Physics, Journal of Low Temperature Physics		
	Editorial reviewer for: Cambridge University Press		
Public Talks	Fermilab Saturday Morning Physics: Cosmology	November 2020	
	After School Matters: Looking Back in Time: Cosmology from th	e South Pole June 2020	
	Fermilab Ask-a-Scientist: Looking Back in Time: Cosmology from	the South Pole June 2020	
	Fermilab Saturday Morning Physics: Extragalactic Astronomy	April 2020	
	Fermilab Saturday Morning Physics: Cosmology	November 2019	
	Lifelong Learning Institute: Cosmology and the Early Universe	September 2018	

	MIT Kavli Institute IAP Seminar: Hunting Dark Matter MIT Kavli Institute IAP Seminar: Hunting Dark Matter MIT Astronomical Event: Dark Matter Searches	·
Outreach Activities	Co-Director, Saturday Morning Physics, Fermilab Volunteer for Ask-a-Scientist, Fermilab Dark Matter Day Panelist, Dark Matter Coffee Organizer for Saturday Morning Physics, Fermilab Career panelist for "High Energy High Ambition," Fe Volunteer with Quarknet Radio Telescope, Fermilab Fermilab Family Open House: panelist for "A Day in the Life"	Fall 2019-presentMarch 2018October 2017Fall 2015-Spring 2019ermilabApril 2017October 2015-August 2016February 2016