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Administrative Leadership Positions

2016 – present University of Southern California, Anna H. Bing Dean of the Dana and David Dornsife College of Letters, Arts, and Sciences
2011 – 2016 Columbia University, Dean of Science for the Faculty of Arts & Sciences

Academic Positions

2016 – present **University of Southern California**, Professor of Physics & Astronomy
2011 – 2016 **Columbia University**, Professor of Physics
2008 – 2011 **Columbia University**, Walter LeCroy Jr. Tenured Associate Professor
2006 – 2008 **Columbia University**, Associate Professor of Physics (tenured 2007)
2002 – 2006 **Columbia University**, Assistant Professor of Physics
2000 – 2002 **The University of Chicago**, Hubble Fellow
1997 – 2000 **Princeton University**, NASA GSRP Fellow
1995 – 1997 **Princeton University**, Princeton University President's Fellow
1994 – 1995 **U. C. Berkeley**, Research Assistant, Department of Astronomy
1992 – 1994 **U. C. Berkeley**, Research Assistant, Department of Physics

Education

- **Princeton University**, PhD Physics, 2000
- **University of California at Berkeley**, BA Physics and Astronomy, 1995

Research Interests

Experimental Cosmology: Physics of the Early Universe, The Origin and Evolution of the Universe, Temperature and Polarization Anisotropy in the Cosmic Microwave Background, Sunyaev-Zel'dovich effect in clusters of galaxies.

Atmospheric Physics: Polar Mesospheric Clouds as Tracers of Atmospheric Dynamics

Honors and Awards

Fellow of the American Physical Society, 2014
Lenfest Distinguished Faculty Award, 2008
NSF CAREER Award, 2005
Alfred P. Sloan Fellowship, 2005
Hubble Fellowship, 2000
Dodds Foundation Fellowship for Outstanding Thesis Research (Princeton), 2000
NASA Graduate Student Research Program (GSRP) Fellowship, 1997
President's Fellowship (Princeton University), 1995
Klumpke Award (U. C. Berkeley), 1995
University Honors in Physics (U. C. Berkeley), 1995

Board Memberships

2022 – present, Sky Systems

2021 – present, New York Academy of Sciences

Professional Society Memberships

2019 – present, LA Sustainability Leadership Council

2018 – present, Pacific Council on International Policy

2017 – present, Los Angeles Institute for the Humanities

2015 – present, Council on Foreign Relations

2014 – present, American Geophysical Union

2014 – present, American Association for the Advancement of Science

2011 – present, American Physical Society

2011 – 2016, Simons Science Series

2008 – 2013, Term member Council on Foreign Relations

1996 – present, American Astronomical Society

Ongoing Reviewing Responsibilities

- Physics Review Letters
- Astrophysical Journal
- Astronomy and Astrophysics
- Journal of Atmospheric and Solar-Terrestrial Physics
- Reviewer for various programs – NASA, NSF, NRAO, DoE, Fondazione Cariparo

Other Professional Activities

- Co-Chair NASA Inflation Probe Science Analysis Group (IPSAG) (2015 – 2018)
- Member NASA Physics of the Cosmos Program Analysis Group (PhysPAG) Executive Committee (2014 – 2017)
- Member-at-Large APS Division of Astrophysics Executive Committee (2011-2014)
- Member NASA Inflation Probe Science Analysis Group – IPSAG (2011-present)
- Member NASA Review of Astrophysics programs for Research, Analysis and Enabling Technology (2011)
- Member NASA Primordial Polarization Program Definition Team (2007-2010)

Courses Taught

- Physics: Physics for Poets
- Physics: Introductory Mechanics and Relativity
- Physics: Introduction to Electricity, Magnetism, and Thermodynamics
- Physics: Seminar: Contemporary Cosmology
- Physics: Seminar: Physics, Politics, and Critical Thinking
- Earth and Environmental Science: Weapons of Mass Destruction

Selected Synergistic Activities

- Chief Science Advisor, NYPD Counterterrorism Bureau, 2009-2010
- Physics Consultant to screenwriter Rachel Johnson for screenplay based on the life of Mileva Maric, 2007.
- Organizer, Roundtable discussion at Columbia University with Union of Concerned Scientists on Scientific Integrity in Politics, 2005

Selected Outreach Activities

- Panelist, XPrize Visioneering Summit Off-Grid Energy Panel, Los Angeles, 2018
- Keynote Speaker, Herbert G. Klein Lecture on Civic and Community Leadership, 2017

- Panelist, Plenary Session World Science Festival, “Ripples from the Big Bang: The Inflation Debate Make Waves in Physics”
- Panelist, Plenary Session World Science Festival, “Afterglow: Dispatches from the Birth of the Universe”, 2012
- Moderator, Columbia World Leaders Forum, “What if we find the Higgs particle? And what if we don’t?”, 2012
- Leader of NSF REU (Research Experience for Undergraduates), 2005-2010
- Leader of NSF-funded partnership with School for Democracy and Leadership summer program for high school students, 2004-2010
- Leader of partnership with Renaissance Charter School for participation of high school students in the construction of the Sunyaev-Zel’dovich Array, 2002-2004

University Service

University of Southern California

- Southern California Clinical and Translational Science Institute Internal Advisory Board, 2021- present
- Executive Steering Committee, 2019-present
- HR Steering Committee, 2019-2020
- Executive Committee of the Deans, 2019 – present
- ITS Executive Steering Committee, 2018 – present
- USC Stevens Center for Innovation Faculty Advisory Committee, 2018 – present
- Deans Steering Committee for the University Initiative to Eliminate Homelessness, 2018-present
- Deans Task Force on Neuroscience Graduate Education, May – Dec 2018
- Deans Committee for the Provost Initiative on Enhancing Security and Sustainability, April 2017 – present

Columbia University

- Earth Institute Search Advisory Committee, 2015 - 2016
- Columbia University Committee on Global Thought, 2015 – 2016
- Data Science Task Force, 2015 - 2016
- Advisory Board for the Center for Science and Society, 2014 – 2016
- Precision Medicine Task force, 2014 – 2016
- Precision Medicint Working group, 2014 - 2016
- University Conflict of Interest Policy Drafting Committee, 2013-2014
- Advisory committee of Columbia's Science Honors Program, 2011-2016
- Executive Committee of the Faculty of Arts and Sciences (chair), 2009-2010
- Executive Committee of the Faculty of Arts and Sciences, 2008-2009
- Space Planning Committee, 2008-2010
- Faculty Budget Group, 2008-2010
- Academic Review Committee (ex officio), 2009-2010
- Jr. Faculty Search Committee, 2003-2010
- Qualifying Exam Committee, 2008-2009
- Building Committee (Chair), 2007-2008
- Nevis Laboratories Retreat Committee, 2007-2008
- Graduate Admissions Committee, 2003-2004 & 2007-2008
- Student – faculty Issues Committee, 2005-2006
- Machine Shop Committee (Chair), 2004-2007
- Machine Shop Committee, 2003-2004
- Thesis Committees (Jameson Rollins, 2010; Maurice Leutnegger, 2007; Jun Zhang, 2007; Adam Litz, 2005; John Peterson, 2004; Tzu-Ching Chang, 2004)

Grants and Awards

- Co-Investigator – NASA grant, “Turbulence, Gravity Waves, and Instability Dynamics Observed in Polar Mesospheric Clouds”, 2016-2020
- Principle Investigator – NSF grant, “CEDAR: Analysis of High Resolution Stratospheric Observations of Polar Mesospheric Clouds”, 2015 - 2017
- Co-investigator – NASA grant “Search for Signatures of Inflation with the EBEX Balloon-Borne Instrument”, 2013-2016
- Co-investigator – NASA grant “Search for the B-mode Signal of the Cosmic Microwave Background Polarization with the Balloon-Borne E & B Experiment (EBEX)”, 2008-2013
- Principal Investigator – NSF CAREER grant “CAREER: A Novel Cosmic Microwave Background Polarization Experiment Based on Large Arrays of Coherent Polarimeters”, 2005-2010
- Co-Investigator – NSF grant “The QUIET Project: Phase I”, 2006-2009
- Co-investigator – NASA grant “Search for the B-mode Signal of the Cosmic Microwave Background Polarization with the Balloon-Borne E & B Experiment (EBEX)”, 2005-2008
- Principal Investigator – NSF grant “The Baryon Distribution in Galaxy Clusters and Groups; A New Look with the Sunyaev-Zel’dovich Array”, 2005-2008
- Co-investigator – NSF grant “A Multi-wavelength Study of Galaxy Clusters”, 2005-2008
- Principal Investigator – NASA grant “A U.S. Based Facility for Metal-Mesh Millimeter and Submillimeter Wave Filters”, 2004-2007
- Principal Investigator - Alfred P. Sloane Research Fellowship, 2005-2007
- Principal Investigator – NSF REU supplement to CAREER, 2008
- Principal Investigator – NSF REU supplement to CAREER, 2007
- Principal Investigator – NSF REU supplement to CAREER, 2006
- Principal Investigator – NSF REU supplement to CAREER, 2005
- Co-investigator – NASA grant “CMBPol: A Mission Concept Study for an Inflation Probe”, 2004-2006
- Principal Investigator – subcontract from JPL NASA grant “Columbia Participation in 91-element 90 GHz Polarimeter Array Suitable for Mapping Polarization in the Cosmic microwave Background”, 2004-2005
- Principal Investigator – subcontract from U. Chicago NSF grant “Development of an Advanced Heterogeneous Array for Probing the High Redshift Universe”, 2003-2005

Postdoctoral Fellows Advised

- Joy Didier
- Glenn Jones
- Will Grainger
- Ross Williamson
- Jonathan Zwart
- Britt Reichborn-Kjennerud
- Julio Gallegos

PhD Students Advised

- Remington Gerras (current)
- Jacob Lashner (current)
- Bjorn Kjellstrand
- Heather McCarrick (co-supervisor)

- Daniel Flanigan (co-supervisor)
- Derek Araujo
- Joy Didier, NASA Graduate Fellow
- Daniel Chapman
- Seth Hillbrand, NSF Graduate Fellow
- Robert Dumoulin
- Marilena LoVerde (co-supervised)
- Britt Reichborn-Kjennerud (PhD 2010), NASA GSRP Fellow, 2007-2010; NSF AAP Postdoctoral Fellow
- Laura Newburgh (PhD 2010)
- Tony Mroczkowski (PhD 2008), NASA Einstein Postdoctoral Fellow
- Stephen Muchovej (PhD 2008), NSF Graduate Fellow 2005-2008; NSF AAP Postdoctoral Fellow

Undergraduates Advised

Supervised approximately 50 undergraduate research students between 2002 and 2016

Refereed Publications

- Kjellstrand, C. B., Fritts, D. C., Miller, A. D., Williams, B. P., N., Geach, C., Hanany, S., Kaifler, B., Jones, G., Limon, M., Reimuller, J., Wang, L. "Multi-Scale Kelvin-Helmholtz Instability Dynamics Observed by PMC Turbo on 12 July 2018: 1. Secondary Instabilities and Billow Interactions: *Journal of Geophysical Research: Atmospheres*, 127, 18 (2022)
- Lashner, J., Seibert, J., Silva-Feaver, M., Bhandarkar, T., Crowley, K. T., Duff, S. M., Dutcher, D., Harrington, K., Henderson, S. W., Miller, A. D., Niemack, M., Staggs, S., Wang, Y., Zheng, K., "The Simons Observatory: Complex Impedance Measurements for a Full Focal-Plane Module", [arXiv:2207.11804](https://arxiv.org/abs/2207.11804) (2022)
- Kjellstrand, C. B., Jones, G., Geach, C., Williams, B. P., Fritts, D. C., Miller, A., Hanany, S., Limon, M., & Reimuller, J., "The PMC Turbo balloon mission to measure gravity waves and turbulence in Polar Mesospheric Clouds: Camera, telemetry, and software performance", *Earth and Space Science*, 7, 8 (2020)
- Fritts, D. C., Kaifler, N., Kaifler, B., Geach, C., Kjellstrand, C. B., Williams, B. P., Eckermann, D., Miller, A. D., Rapp, M., Jones, G., Limon, M., Reimuller, J., & Wang, L., "Mesospheric Bore Evolution and Instability Dynamics Observed in PMC Turbo Imaging and Rayleigh Lidar Profiling over Northeastern Canada on 13 July 2018", *Journal of Geophysical Research: Atmospheres*, 125, 14 (2020)
- Geach, C., Hanany, S., Fritts, D. C., Kaifler, B., Kaifler, N., Kjellstrand, C. B., Williams, B.P., Eckermann, D., Miller, A. D., Jones, G., & Reimuller, J.; "Gravity Wave Breaking and Vortex Ring Formation Observed by PMC Turbo", *Journal of Geophysical Research: Atmospheres*, 125, 23 (2020)
- Fritts, D. C.; Miller, A. D.; Kjellstrand, C. B.; Geach, C.; Williams, B. P.; Kaifler, B.P.; Kaifler, N.; Jones, G.; Rapp, M.; Limon, M.; Reimuller, J.; Wang, L.; Hanany, S.; Gisinger, S.; Zhao, Y.; Stober, G.; and Randall, C.E.; "PMC Turbo: Studying Gravity Wave and Instability Dynamics in the Summer Mesosphere using Polar Mesospheric Cloud Imaging and Profiling from a Stratospheric Balloon", *Journal of Geophysical Research: Atmospheres*, 124 (2019)
- Didier, J.; Miller, A. D.; Araujo, D.; Aubin, F.; Geach, C.; Johnson, B.; Korotkov, A.; Raach, K.; Westbrook, B.; Young, K.; Aboobaker, A. M.; Ade, P.; Baccigalupi, C.; Bao, C.; Chapman, D.; Dobbs, M.; Grainger, W.; Hanany, S.; Helson, K.; Hillbrand, S.; Hubmayr, J.; Jaffe, A.; Jones, T. J.; Klein, J.; Lee, A.; Limon, M.; MacDermid, K.; Milligan, M.; Pascale, E.; Reichborn-Kjennerud, B.; Sagiv, I.; Tucker, C.; Tucker, G. S.; Zilic, K.; "Intensity-coupled Polarization

in Instruments with a Continuously Rotating Half-wave Plate”, *The Astrophysical Journal*, 876, Issue 1, id. 54, 14 (2019)

- ...Matsuda, F.; Maurin, L.; Mausekopf, P.; May, A.; McCallum, N.; McKenney, C.; McMahon, J.; Meerburg, P. D.; Meyers, J.; Miller, A. D.; Mirmelstein, M.; Moodley, K.; Munchmeyer, M.; Munson, C.; Naess, S.; Nati, F.; Navaroli, M.; Newburgh, L.; plus 231 more authors. “The Simons Observatory: science goals and forecasts”, *Journal of Cosmology and Astroparticle Physics*, Issue 02, id. 056 (2019)
- EBEX Collaboration; Aboobaker, A.; Ade, P.; Araujo, D.; Aubin, F.; Baccigalupi, C.; Bao, C.; Chapman, D.; Didier, J.; Dobbs, M.; Grainger, W.; Hanany, S.; Helson, K.; Hillbrand, S.; Hubmayr, J.; Jaffe, A.; Johnson, B.; Jones, T.; Klein, J.; Korotkov, A.; Lee, A.; Levinson, L.; Limon, M.; MacDermid, K.; Miller, A. D.; Milligan, M.; Moncelsi, L.; Pascale, E.; Raach, K.; Reichborn-Kjennerud, B.; Sagiv, I.; plus 5 more authors. “The EBEX Balloon-borne Experiment—Gondola, Attitude Control, and Control Software”, *The Astrophysical Journal Supplement Series*, 239, Issue 1, id. 9, 19 (2018)
- EBEX Collaboration; Abitbol, M.; Aboobaker, A. M.; Ade, P.; Araujo, D.; Aubin, F.; Baccigalupi, C.; Bao, C.; Chapman, D.; Didier, J.; Dobbs, M.; Feeney, S. M.; Geach, C.; Grainger, W.; Hanany, S.; Helson, K.; Hillbrand, S.; Hilton, G.; Hubmayr, J.; Irwin, K.; Jaffe, A.; Johnson, B.; Jones, T.; Klein, J.; Korotkov, A.; Lee, A.; Levinson, L.; Limon, M.; MacDermid, K.; Miller, A. D.; Milligan, M.; plus 9 more authors. “The EBEX Balloon-borne Experiment—Detectors and Readout”, *The Astrophysical Journal Supplement Series*, 239, Issue 1, id. 8, 25 pp. (2018)
- EBEX Collaboration; Aboobaker, A. M.; Ade, P.; Araujo, D.; Aubin, F.; Baccigalupi, C.; Bao, C.; Chapman, D.; Didier, J.; Dobbs, M.; Geach, C.; Grainger, W.; Hanany, S.; Helson, K.; Hillbrand, S.; Hubmayr, J.; Jaffe, A.; Johnson, B.; Jones, T.; Klein, J.; Korotkov, A.; Lee, A.; Levinson, L.; Limon, M.; MacDermid, K.; Matsumura, T.; Miller, A. D.; Milligan, M.; Raach, K.; Reichborn-Kjennerud, B.; Sagiv, I.; Savini, G.; Spencer, L.; plus 5 more authors. “The EBEX Balloon-borne Experiment—Optics, Receiver, and Polarimetry”, *The Astrophysical Journal Supplement Series*, 239, Issue 1, id. 7, 25 pp. (2018)
- Salatino, M.; Lashner, J.; Gerbino, M.; Simon, S. M.; Didier, J.; Ali, A.; Ashton, P. C.; Bryan, S.; Chinone, Y.; Coughlin, K.; Crowley, K. T.; Fabbian, G.; Galitzki, N.; Goeckner-Wald, N.; Gudmundsson, J. E.; Hill, C. A.; Keating, B.; Kusaka, A.; Lee, A. T.; McMahon, J.; Miller, A. D.; Puglisi, G.; Reichardt, C. L.; Teply, G.; Xu, Z.; Zhu, N.; “Studies of systematic uncertainties for Simons Observatory: polarization modulator related effects”, *Proceedings of the SPIE*, 10708, id. 1070848 22 pp. (2018)
- Johnson, B. R.; Flanigan, D.; Abitbol, M. H.; Ade, P. A. R.; Bryan, S.; Cho, H. -M.; Datta, R.; Day, P.; Doyle, S.; Irwin, K.; Jones, G.; Li, D.; Mausekopf, P.; McCarrick, H.; McMahon, J.; Miller, A. D.; Pisano, G.; Song, Y.; Surdi, H.; Tucker, C.; “Development of Multi-chroic MKIDs for Next-Generation CMB Polarization Studies”, *Journal of Low Temperature Physics*, 193, Issue 3-4, pp. 103-112 (2018)
- McCarrick, H.; Jones, G.; Johnson, B. R.; Abitbol, M. H.; Ade, P. A. R.; Bryan, S.; Day, P.; Essinger-Hileman, T.; Flanigan, D.; Leduc, H. G.; Limon, M.; Mausekopf, P.; Miller, A. D.; Tucker, C.; “Design and performance of dual-polarization lumped-element kinetic inductance detectors for millimeter-wave polarimetry”, *Astronomy & Astrophysics*, 610, id.A45, 11 pp. (2018)
- Jones, G.; Johnson, B. R.; Abitbol, M. H.; Ade, P. A. R.; Bryan, S.; Cho, H. -M.; Day, P.; Flanigan, D.; Irwin, K. D.; Li, D.; Mausekopf, P.; McCarrick, H.; Miller, A. D.; Song, Y. R.; Tucker, C.; “High quality factor manganese-doped aluminum lumped-element kinetic inductance detectors sensitive to frequencies below 100 GHz”, *Applied Physics Letters*, 110, 22, 222601 (2017)
- Fritts, D.C.; Wang, L.; Baumgarten, G.; Miller, A.D.; Geller, M.A.; Jones, G.; Limon, M.; Chapman, D.; Didier, J.; Kjellstrand, C.B; Araujo, D.; Hillbrand, S.; Korotkov, A; Tucker, G.; Vinokurov, J.; “High-resolution observations and modeling of turbulence sources,

structures, and intensities in the upper mesosphere”, *Journal of Atmospheric and Solar-Terrestrial Physics*, 162, Pages 57-78 (2017)

- Aubin, F.; Bayman, B.; Hanany, S.; Franco, H.; Marsh, J.; Didier, J.; Miller, A. D.; “Torsional balloon flight line oscillations: Comparison of modelling to flight data”, *Advances in Space Research*, 60, Issue 3, p. 702-708 (2017)
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- Johnson, B., Flanigan, D., Abitbol, M., Ade, P., Bryan, S., Cho, H-M., Datta, R, Day, P., Doyle, S., Irwin, K., Jones, G., Kernasovskiy, S., Li, D., Mauskopf, P., McCarrick, H., McMahan, J., Miller, A. D., Pisano, G., Song, Y., Surdi, H., & Tucker, C., “Polarization Sensitive Multi-Chroic MKDs,” *Proc. SPIE 9914, Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy VII*, 99140X (2016)
- Flanigan, D.; McCarrick, H.; Jones, G.; Johnson, B. R.; Abitbol, M. H.; Ade, P.; Araujo, D.; Bradford, K.; Cantor, R.; Che, G.; Day, P.; Doyle, S.; Kjellstrand, C. B.; Leduc, H.; Limon, M.; Luu, V.; Mauskopf, P.; Miller, A.D.; Mroczkowski, T.; Tucker, C.; Zmuidzinas, J.; “Photon noise from chaotic and coherent millimeter-wave sources measured with horn-coupled, aluminum lumped-element kinetic inductance detectors”, *Applied Physics Letters*, 108, 083504 (2016)
- McCarrick, H., Abitbol, M., Ade, P., Barry, P., Bryan, S., Che, G., Day, P., Doyle, S., Flanigan, D., Johnson, B., Jones, G., LeDuc, H., Limon, M. Mauskopf, P., Miller, A.D., Tucker, C., and Zmuidzinas, J., “Development of Dual-Polarization LEKIDs for CMB Observations”, *Proc. SPIE Astronomical Telescopes + Instrumentation*, Paper 9914-24 (2016)
- McCarrick, H.; Flanigan, D.; Jones, G.; Johnson, B. R.; Ade, P. A. R.; Bradford, K.; Bryan, S.; Cantor, R.; Che, G.; Day, P.; Doyle, S.; Leduc, H.; Limon, M.; Mauskopf, P.; Miller, A. D.; Mroczkowski, T.; Tucker, C.; Zmuidzinas, J.; “A Titanium Nitride Absorber for Controlling Optical Crosstalk in Horn-Coupled Aluminum LEKID Arrays for Millimeter Wavelengths”, *Journal of Low Temperature Physics*, 184, Issue 1-2, pp. 154-160 (2016)
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- Miller, A. D.; Fritts, D. C.; Chapman, D.; Jones, G.; Limon, M.; Araujo, D.; Didier, J.; Hillbrand, S.; Kjellstrand, C. B.; Korotkov, A.; Tucker, G.; Vinokurov, Y.; Wan, K., Wang, L. “Stratospheric Imaging of Polar Mesospheric Clouds: A New Window on Small-Scale Atmospheric Dynamics”, *Geophysical Research Letters*, 42, 6058- 6065 (2015)
- Keating, G. K., Bower, G. C., Marrone, D. P., DeBoer, D. R., Heiles, C., Chang, T-C., Carlstrom, J. E., Greer, C. H., Hawkins, D., Lamb, J. W., Leitch, E., Miller, A. D., Muchovej, S., Woody, D. P., “First Results from COPSS: The CO Power Spectrum Survey”, Accepted for Publication *ApJ* (2015)
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Wehus, I.K.; Zwart, J.T.L.; Dickinson, C.; Eriksen, H.K.; Gaier, T.; Gundersen, J.O.; Hasegawa, M.; Hazumi, M.; Miller, A.D.; Radford, S.J.E.; Readhead, A.C. S.; Staggs, S.T.; Tajima, O.; Thompson, K.L. The Q/U Imaging Experiment: Polarization Measurements of Radio Sources at 43 and 95 GHz, *ApJ*, 806, 112 (2015)

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