Biographical Sketch of Mark J. Devlin April 2018

Department of Physics and Astronomy	Office: (215) 573-7521
University of Pennsylvania	Lab: (215) 573-7558
Philadelphia, Pennsylvania 19104	Fax: (215) 573-3826
http://www.devlinlab.info	email: devlin@physics.upenn.edu

Research Interests: Experimental Cosmology, Millimeter and Sub-millimeter Instrumentation

Professional Preparation:

1988	B.S.	Physics/Math	University of Wisconsin
1993	M.A.	Physics	University of California at Berkeley
1993	Ph.D.	Physics	University of California at Berkeley

Professional Appointments:

2006-	Reese W. Flower Professor of Astronomy and Astrophysics, University of
	Pennsylvania
2003-2006	Class of 1965 Term Chair, University of Pennsylvania
2000-2003	Associate Professor, University of Pennsylvania
1996-2000	Assistant Professor, University of Pennsylvania
1995-1996	Research Associate, Princeton University
1994-1995	Postdoctoral Researcher, Princeton University
1993-1994	Postdoctoral Researcher, University of California at Berkeley

Honors and Awards:

2015	University of Pennsylvania School of Arts and Sciences Ira H. Abrams Memorial
	Award for Distinguished Teaching
2015	University of Wisconsin Physics Department Distinguished Alumni Award
2011	American Physical Society Fellow
2010	University of Pennsylvania School of Arts and Sciences Dean's award for
	Undergraduate Research Mentoring
2008	Kavli Fellow, NAS
2000	Alfred P. Sloan Fellow
1998-2003	NSF Career Award

Experience:

2016 -	Spokesperson for the Simons Observatory
2005 -	PI of the MUSTANG project (90 GHz camera for the Green Bank Telescope)
2003 -	Co-I of the Atacama Cosmology Telescope (co-Director starting 2014)
2001 -	PI of the Balloon-borne Large Aperture Telescope - BLAST

Publication Record (Google Scholar): 12,000+ citations, h-index of 62, and ;10-index of 170. Since 2013, 6500+ citations, h-index of 44, and ;10-index of 121.

External Service:

2016-2017	NASA Mission of Opportunity Review
2016-	NSF/DOE Concept Definition Team for CMB-S4
2016	NASA Astrophysics Subcommittee
2015	NASA Mid-scale Satellite Selection Committee
2014	NSF AAG Review Committee
2014	NSF Postdoctoral Fellowship Selection Committee
2012	SOFIA New Instrument Selection - NASA
2011-2014	NRAO Users Committee
2010	SOFIA Instrument Review Panel - NASA
2008-2010	Astronomy Decadal Program Prioritization Panel - EOS, NAS
2006-2007	Beyond Einstein Program Assessment Committee, NAS
2006	Caltech/Cornell Telescope review panel
2005-2006	Joint NSF/DOE/NASA CMB Taskforce, 2004-2005
2003-2007	Balloon Roadmapping Team, NASA
2003-	Balloon Working Group, NASA
2004	SAGENAP, DOE
2004	Vision Missions Review Panel, NASA
2001-2004	Astronomy and Physics Working Group, NASA
2003-2004	NASA Advanced Detectors Review Panel
2000	NASA ROSS detector Review Panel
2000	AURA US-Gemini Fellowship Review Panel
1999	NSF CAREER Review Panel

University, School, and Department Service:

2017	Astronomy Faculty Search Committee
2016-	Junior Faculty Mentor - Christopher Mauget
2014-	Junior Faculty Mentor - Cullen Blake
2011-2016	Junior Faculty Mentor - James Aguirre
1997-	Head of Physical Sciences Machine Shop
2014-2016	Departmental Planning Committee
2006-2009	SAS Planning Committee
1997-2009	Astronomy Search Committee
2000-2005	Physics Department Planning Committee
2000	Teaching Committee
1998-2002	Graduate Admissions
2000	Condensed Matter Search
1991-2001	Committee for Undergraduate Education

Selected Presentations:

- 2017 Cosmic Microwave Background, Colloquium, Rochester
- 2017 Cosmic Microwave Background, Colloquium, Carnegie Mellon
- 2017 Cosmic Microwave Background, Colloquium, JHU/STSCI
- 2017 Cosmic Microwave Background, DPF Plenary Talk, Fermilab
- 2017 MUSTANG, Seminar, Cornell University
- 2016 Public Astronomy, Franklin Institute, Philadelphia, PA
- 2016 BLAST, Colloquium, Yale, New Haven, CT
- 2016 MUSTANG, Colloquium, NRAO, Socorro, NM

- 2016 BLAST, Colloquium, West Chester University
- 2016 BLAST, Colloquium, Drexel University
- 2015 Ground Based CMB in the US, Florence, Italy
- 2015 BLAST, Colloquium, Brookhaven National Lab
- 2015 BLAST, Colloquium, University of Wisconsin Madison
- 2015 BLAST, Colloquium, University of California San Diego
- 2014 AdvACT, Invited Talk, Planck2014, Ferrara, Italy
- 2014 MUSTANG, Seminar, McGill University
- 2014 MUSTANG, Seminar, Cardiff University, Wales
- 2014 MUSTANG, Seminar, IAS, Princeton, NJ
- 2014 MUSTANG, Colloquium, NRAO, Green Bank, WV
- 2013 BLAST, Downingtown, PA STEM Academy
- 2013 BLAST, Colloquium, Arizona State University
- 2013 BLAST, Chester County Astronomical Society
- 2013 ACT, Invited Talk, CMB2013, Okinawa, Japan
- 2013 ACT, Invited Talk, AAAS Meeting, Boston, MA
- 2013 BLAST, Penn Academy, Palm Beach, FL
- 2012 MUSTANG, UC Berkeley Seminar
- 2012 BLAST, SOFIA Science Center Colloquium, NASA Ames Research Center
- 2011 BLAST, University of Michigan Seminar, Anne Arbor, MI
- 2011 BLAST, NRAO Single Dish Summer School Closing Talk, Greenbank, WV
- 2011 MUSTANG, SZ Meeting, Santandor, Spain
- 2011 BLAST, Southeastern Planetarium Association, Georgia
- 2011 BLAST Foregrounds, Planck Workshop, Princeton, NJ
- 2011 BLAST Public Lecture, Deleware Valley Amature Astronomers Club
- 2010 BLAST Public Lecture, McMurdo Station, Antarctica
- 2010 SAS Graduate Commencement Speech, Philadelphia, PA
- 2010 BLAST Public Lecture with movie, Northeast Astronomy Forum and Telescope Show, Suffern, NY
- 2010 BLAST Public Question and Answer with movie, Lambertville, NJ
- 2010 Public Lecture on Cosmology, Penn Club, NYC
- 2010 First Results from BLAST, colloquium, Rowan College, NJ
- 2010 First Results from BLAST, colloquium, Vanderbuilt
- 2010 First Results from BLAST, colloquium, Rutgers University
- 2010 BLAST Public Lecture with movie, Fermilab
- 2010 First Results from BLAST, seminar, Fermilab
- 2010 First Results from BLAST, seminar, Michigan State University, East Lansing, MI
- 2009 BLAST Public Lecture with movie, Ohio State
- 2009 BLAST Public Lecture with movie, Coca-Cola Space Science Center, Columbus, GA
- 2009 BLAST Public Lecture with movie, East Tennessee State University, Johnson City, TN
- 2009 High Altitude Ballooning, invited talk, Bridging the Gap to Space, Boulder, CO
- 2009 First Results from BLAST, colloquium, MIT Astronomy
- 2009 BLAST on the Colbert Report, NY, NY
- 2009 First Results from BLAST, colloquium, Haverford College, PA
- 2009 BLAST Public Lecture with movie, Columbia University, NY, NY
- 2009 High Altitude Ballooning, invited talk, American Institute of Aeronautics and Astronautics, Seattle, WA
- 2009 First Results from BLAST, invited talk, Far-IR/Submm Innovative Approaches Workshop, Caltech
- 2009 First Results from BLAST, colloquium, NASA Goddard Space Flight Center

- 2009 First Results from BLAST, colloquium, Princeton University Astronomy
- 2008 First Results from BLAST, colloquium, Norwestern University
- 2008 ACT, colloquium, Cardiff University, Cardiff, Wales
- 2008 First Results from BLAST, seminar, National Institute of Standards, Boulder, CO
- 2008 BLAST and ACT, two invited lectures, Summer School on the CMB and Large Scale Structure, IUCAA, Pune, India
- 2008 First Results from BLAST, The Future of Far-IR/Submillimeter Astrophysics, Pasadena, CA
- 2008 BLAST, Public Lecture, Sunday Evening Seminar, Wilmington, DE
- 2008 BLAST!, Public Lecture at the Vail Symposium, Vail, Co
- 2007 BLAST and ACT, seminar, Penn State
- 2007 BLAST, seminar, NASA Headquarters
- 2006 BLAST, public lecture, McMurdo Station, Antarctica Science Wednesday
- 2006 ACT, invited talk, Fundamental Physics With Cosmic Microwave Background Radiation UC Irvine
- 2005 ACT and BLAST, seminar, Washington University, St. Louis
- 2005 Cosmology at Penn, public talk, Penn Science Cafe
- 2005 Cosmolgy at Penn, keynote speaker, Starfest 2005
- 2005 BLAST, seminar, Swedish Space Corporation, Kiruna, Sweden
- 2004 ACT and BLAST, colloquium, NIST, Boulder, CO
- 2004 BLAST, invited talk, SPIE Astronomical Telescopes and Instrumentation, Glasgow, Scotland
- 2004 ACT and BLAST, colloquium, University of Wisconsin
- 2004 ACT and BLAST, colloquium, Columbia University

Ph.D. Students:

Current Nathan Lourie, Ian Lowe, Jack Orlowski, Sara Stanchfield, Jon Ward, Ningfeng Zhu

2018	Benjamin Schmitt, ACT (Anticipated)
2017	Marius Lungu, ACT
2016	Brad Dober, BLAST
2016	Nick Galitzki, BLAST
2014	Alex Young, MUSTANG
2013	Elio Angile, The BLAST Experiment
2011	Phil Korngut, SZ Observations with MUSTANG

- 2011 Danica Marsden, The ACT Experiment
- 2007 Marie Rex, The BLAST Experiment
- 2009 Dan Swetz, The ACT Experiment
- 2009 Chris Semisch, The BLAST Experiment

Postdocs:

2018-	Gabriele Coppi, Ph.D., Manchester University
2018-	Javier Romualdez, Ph.D., University of Toronto
2018-	Charles Romero, Ph.D., University of Virginia
2017-	Zhilei Xu, Ph.D., JHU
2015-2016	Seth Hillbrand, Ph.D., Columbia University
2014-	Federico Nati, Ph.D., University of Rome
2013-2017	Elio Angile, Ph.D., University of Pennsylvania

- 2009-2013 Erik Reese, Ph.D., University of Chicago
- 2009-2011 Kim Scott, Ph.D., University of Massachusetts
- 2008-2010 Marcos Lima, Ph.D., University of Chicago
- 2008-2011 Tony Mroczkowski, Ph.D., Columbia University
- 2008-2009 Fritz Stabenau, Ph.D., University of Pennsylvania
- 2007-2011 Matthew Truch, Ph.D., Brown University
- 2007-2009 Marie Rex; Ph.D., University of Pennsylvania
- 2005-2008 Robert Thornton, Ph.D., University of Hawaii
- 1999-2004 Simon Dicker, Ph.D., Cambridge University
- 1997-1999 Jason Puchalla, Ph.D. University of Chicago

Grant History:

Balloon-borne Large Aperture Telescope - BLAST, \$2.7M
NASA, Principal Investigator, Mark Devlin
Observations with the MUSTANG Receiver on the GBT , \$555K
NSF, Principal Investigator, Mark Devlin
The Simons Observatory, \$63M
Simons Foundation, Spokesperson, Mark Devlin
Advanced ACTPol, \$2M
NSF (through Princeton University), Principal Investigator, Mark Devlin
Observations with the MUSTANG Receiver on the GBT , \$506K
NSF, Principal Investigator, Mark Devlin
Balloon-borne Large Aperture Telescope - BLAST, \$4.6M
NASA, Principal Investigator, Mark Devlin
The MUSTANG1.5 Receiver for the GBT, \$83K
Mt. Cuba Astronomical Society, Principal Investigator, Mark Devlin
ACTPol, \$3M
NSF (through Princeton University), Principal Investigator, Mark Devlin
Observations with the MUSTANG Receiver on the Green Bank Telescope,
\$530K
NSF, Principal Investigator, Mark Devlin
Balloon-borne Large Aperture Telescope - BLAST, \$2.2M
NASA, Principal Investigator, Mark Devlin
Spitzer South Ecliptic Pole Survey, \$364K
NASA, Principal Investigator, Mark Devlin
Balloon-borne Large Aperture Telescope - BLAST, \$1.8M
NASA, Principal Investigator, Mark Devlin
Penn Research Foundation, \$35K
Penn Array Receiver on the GBT, \$360K
NSF, Principal Investigator, Mark Devlin
Atacama Cosmology Telescope - ACT, \$3.1M
National Science Foundation (administered through Princeton University)
Principal Investigator: Mark Devlin
Penn Array for the Green Bank Telescope, \$704K
National Radio Astronomy Observatory, Principal Investigator, Mark Devlin
PAPPA - Balloon Polarization Experiment, 2004-2007, \$438K (to Penn)
NASA, Principal Investigator, Al Kogut (GSFC)
Balloon-borne Large Aperture Telescope - BLAST, 2003-2006, \$954K
NASA, Principal Investigator, Mark Devlin

2000-2003	Balloon-borne Large Aperture Telescope - BLAST, 2000-2003, \$950K
	NASA, Principal Investigator, Mark Devlin
2000	Penn Research Foundation, \$35K
1998-2003	Research Experience for Undergraduates , \$75K
	NSF, Principal Investigator, Mark Devlin
1998-2003	Mobile Anisotropy Telescope - MAT, 1998-2003, \$490K
	NSF, Principal Investigator, Mark Devlin

Telescope time:

2018	GBT, NRAO, 150+ hours
2017	GBT, NRAO, 150+ hours
2014	GBT, NRAO, 150+ hours
2013	GBT, NRAO, 150+ hours
2012	GBT, NRAO, 150+ hours
2011	GBT, NRAO, 300+ hours.
2010	GBT, NRAO, 150+ hours.
2009	GBT, NRAO, 100+ hours.
2008	GBT, NRAO, 70 hours.
2008	Spitzer satellite, 91 hours.
2008	GBT, NRAO, 60 hours.
2007	GBT, NRAO, 36 hours.
2006	GBT, NRAO, 36 hours.