**CURRICULUM VITAE**

*Philip Daniel Mauskopf*

School of Earth and Space Exploration and Department of Physics, Arizona State University

PO Box 871404, Tempe, AZ 85287-1404

Tel: 480-965-3267, Fax: 480-965-8102

Email: mauskopf@asu.edu

**Professional Preparation:**

B.A. Physics, Harvard College, 1991

M.A. Physics, U. C. Berkeley, 1994

Ph.D Physics, U. C. Berkeley, 1997

**Appointments:**

Professor in Physics and the School of Earth and Space Exploration, ASU, 2012-present

Professor in Experimental Astrophysics, Cardiff University, 2007-2012

Reader in Experimental Astrophysics, Cardiff University, 2003-2007

Senior Lecturer, University of Wales, Cardiff, 2002-2003

Senior Research Fellow, University of Wales, Cardiff, 2000-2002

Research Assistant Professor/Camera Scientist, University of Massachusetts/LMT, 1996-2000

Graduate Research Associate, U. C. Berkeley, 1990-1996

|  |  |  |
| --- | --- | --- |
| **Year** | **Refereed** | **Non-refereed** |
| **2010** | **14** | **12** |
| **2011** | **16** | **4** |
| **2012** | **4** | **12** |

**Publications:**

Total: > 289 total (ADS only)/128 refereed

Total citations: 10,247 (ADS only)

h-index: 45 (ADS only)

**Sample publications (refereed):**

[Monfardini, A.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Monfardini,+A&fullauthor=Monfardini,%20A.&charset=UTF-8&db_key=AST), [Benoit, A.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Benoit,+A&fullauthor=Benoit,%20A.&charset=UTF-8&db_key=AST), [Bideaud, A.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Bideaud,+A&fullauthor=Bideaud,%20A.&charset=UTF-8&db_key=AST), [Swenson, L.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Swenson,+L&fullauthor=Swenson,%20L.&charset=UTF-8&db_key=AST), [Cruciani, A.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Cruciani,+A&fullauthor=Cruciani,%20A.&charset=UTF-8&db_key=AST), [Camus, P.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Camus,+P&fullauthor=Camus,%20P.&charset=UTF-8&db_key=AST), [Hoffmann, C.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Hoffmann,+C&fullauthor=Hoffmann,%20C.&charset=UTF-8&db_key=AST), [Désert, F. X.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Desert,+F&fullauthor=D%c3%a9sert,%20F.%20X.&charset=UTF-8&db_key=AST), [Doyle, S.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Doyle,+S&fullauthor=Doyle,%20S.&charset=UTF-8&db_key=AST), [Ade, P.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Ade,+P&fullauthor=Ade,%20P.&charset=UTF-8&db_key=AST), [**Mauskopf, P.**](http://adsabs.harvard.edu/cgi-bin/author_form?author=Mauskopf,+P&fullauthor=Mauskopf,%20P.&charset=UTF-8&db_key=AST), [Tucker, C.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Tucker,+C&fullauthor=Tucker,%20C.&charset=UTF-8&db_key=AST), [Roesch, M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Roesch,+M&fullauthor=Roesch,%20M.&charset=UTF-8&db_key=AST), [Leclercq, S.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Leclercq,+S&fullauthor=Leclercq,%20S.&charset=UTF-8&db_key=AST), [Schuster, K. F.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Schuster,+K&fullauthor=Schuster,%20K.%20F.&charset=UTF-8&db_key=AST), [Endo, A.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Endo,+A&fullauthor=Endo,%20A.&charset=UTF-8&db_key=AST), [Baryshev, A.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Baryshev,+A&fullauthor=Baryshev,%20A.&charset=UTF-8&db_key=AST), [Baselmans, J. J. A.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Baselmans,+J&fullauthor=Baselmans,%20J.%20J.%20A.&charset=UTF-8&db_key=AST), [Ferrari, L.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Ferrari,+L&fullauthor=Ferrari,%20L.&charset=UTF-8&db_key=AST), [Yates, S. J. C.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Yates,+S&fullauthor=Yates,%20S.%20J.%20C.&charset=UTF-8&db_key=AST), [Bourrion, O.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Bourrion,+O&fullauthor=Bourrion,%20O.&charset=UTF-8&db_key=AST), [Macias-Perez, J.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Macias-Perez,+J&fullauthor=Macias-Perez,%20J.&charset=UTF-8&db_key=AST), [Vescovi, C.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Vescovi,+C&fullauthor=Vescovi,%20C.&charset=UTF-8&db_key=AST), [Calvo, M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Calvo,+M&fullauthor=Calvo,%20M.&charset=UTF-8&db_key=AST), [Giordano, C](http://adsabs.harvard.edu/cgi-bin/author_form?author=Giordano,+C&fullauthor=Giordano,%20C.&charset=UTF-8&db_key=AST)., ‘A Dual-band Millimeter-wave Kinetic Inductance Camera for the IRAM 30 m Telescope,’ ApJS, 194, 24 (2011).

Monfardini, A.; Benoit, A.; Bideaud, A.; Boudou, N.; Calvo, M.; Camus, P.; Hoffmann, C.; Désert, F.-X.; Leclercq, S.; Roesch, M.; Schuster, K.; Ade, P.; Doyle, S.; **Mauskopf, P**.; Pascale, E.; Tucker, C.; Bourrion, A.; Macias-Perez, J.; Vescovi, C.; Barishev, A.; Baselmans, J.; Ferrari, L.; Yates, S. J. C.; Cruciani, A.; de Bernardis, P.; Masi, S.; Giordano, C.; Marghesin, B.; Leduc, H. G.; Swenson, L., ‘The Néel IRAM KID Arrays (NIKA),’ Journal of Low Temperature Physics, **167**, 834 (2012).

Swetz, D. S, et al. (ACT collaboration) ‘Overview of the Atacama Cosmology Telescope: Receiver, Instrumentation, and Telescope Systems,’ ApJS, **194**, 41 (2011).

Zemcov, M., Aguirre, J.; Bock, J.; Bradford, C. M.; Czakon, N.; Glenn, J.; Golwala, S. R.; Lupu, R.; Maloney, P.; **Mauskopf, P**.; Million, E.; Murphy, E. J.; Naylor, B.; Nguyen, H.; Rosenman, M.; Sayers, J.; Scott, K. S.; Zmuidzinas, J., ‘High spectral resolution measurement of the Sunyeav-Zel’dovich effect spectral null with Z-spec,’ ApJ, **749**, 114 (2012).

**Mauskopf, P. D.;** Horner, P. F.; Aguirre, J.; Bock, J. J.; Egami, E.; Glenn, J.; Golwala, S. R.; Laurent, G.; Nguyen, H. T.; Sayers, J. , ‘A high signal-to-noise ratio map of the Sunyaev-Zel'dovich increment at 1.1-mm wavelength in Abell 1835,’MNRAS, **421**, 224 (2012).

Das, S., et al. (ACT collaboration), ‘The Atacama Cosmology Telescope: A Measurement of the Cosmic Microwave Background Power Spectrum at 148 and 218 GHz from the 2008 Southern Survey,’ ApJ, **729**, 62 (2011).

Morozov, D., **Mauskopf, P. D.**, Ade, P., Ridder, M., Khosropanah, P., Bruijn, M., van der Kuur, J., Hoevers, H., Gao, J.-R., Griffin, D., ‘Ultrasensitive TES Bolometers for Space-Based FIR Astronomy,’, IEEE Trans. Appl. Supercond., **21**, 188 (2011).

**Synergistic Activities:**

* Development of detector technologies (spider-web bolometers, KIDs, TES, CEBs, etc.) for ground-based, balloon-borne and space-based mm-wave to far-infrared instruments (e.g. BOOMERANG, BOLOCAM/AzTEC, BLAST, SuperBLASTPol, SAFARI/SPICA)
* Development of mm-wave instruments for imaging, polarimetry and spectroscopy including design, integration and observations with kinetic inductance detector-based instruments (NIKA, KIDCAM, SuperBLASTPol).
* Design and electromagnetic simulation of metal mesh filters and metamaterials and mm-wave optics.
* Study of temperature and polarization anisotropies in the cosmic microwave background and galaxy formation and evolution using mm-wave to far-infrared telescopes and instruments.
* Galactic star formation research using mm-wave and sub-mm wave telescopes.

**Recent Collaborators (36 months):**

Peter Ade, Cardiff University

Matt Griffin, Cardiff University

Walter Gear, Cardiff University

Enzo Pascale, Cardiff University

Simon Doyle, Cardiff University

Carole Tucker, Cardiff University

Jian-Rong Gao, Delft University and SRON,Netherlands

Pourya Khosropanah, SRON, Netherlands

Piet DeKorte, SRON, Netherlands

Anthony Murphy, NUIM, Ireland

Niel Trappe, NUIM, Ireland

Creidhe O’Sullivan, NUIM, Ireland

Jonas Zmuidzinas, California Institute of Technology

Jamie Bock, California Institute of Technology

Mike Zemcov, California Institute of Technology

Matt Bradford, California Institute of Technology

Sunil Golwala, California Institute of Technology

James Aguirre, University of Pennsylvania

Jason Glenn, Colorado University

Grant Wilson, University of Massachusetts

Min Yun, University of Massachusetts

David Hughes, INAOE, Mexico

Alessandro Monfardini, Institute Neel, Grenoble,France

Alain Beniot, Institute Neel, Grenoble, France

Martin Giard, IRAP, Toulouse, France

Alain Cros, IRAP, Toulouse, France

Laurent Ravera, IRAP, Toulouse, France

Stafford Withington, Cambridge University, UK

Mark Devlin, University of Pennsylania

Lyman Page, Princeton University

**Graduate and Postdoctoral Advisors:**

Andrew Lange U. C. Berkeley (1991-1995) and California Institute of Technology (1995-1996)

**Ph.D. Advisees (in last 5 years)**:

Mike Zemcov (Cardiff University)

Simon Doyle (Cardiff Univeristy)

Piers Horner (Cardiff University)

Peter Barry (Cardiff University)

Tom Brien (Cardiff Univeristy)

George Che (Arizona State University)

Nathan Smith (Arizona State University)

**Postdoctoral scholars supervised (in last 5 years)**:

Simon Doyle (Cardiff University)

Dmitry Morozov (Cardiff University)

Jin Zhang (Cardiff University)

Abdel El Fatimy (Cardiff University)