

Curriculum Vita

R. Paul Butler

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Current Position

Staff Scientist, Department of Terrestrial Magnetism, 1999–

Previous Positions

Research Scientist, San Francisco State University (SFSU), 1993–1997

Visiting Research Fellow, U.C. Berkeley, 1993–1997

Staff Astronomer, Anglo-Australian Observatory, 1997–1999

Education

B.A., Physics, SFSU, 1985 May

B.S., Chemistry, SFSU, 1986 May

M.S., Physics, SFSU, 1989 Jan

Ph.D., Astronomy, University of Maryland, 1993 Jan

Honors & Awards

SFSU Graduate Student Distinguished Achievement Award, 1987

NASA Graduate Student Researchers Fellowship, 1991–92

ABC News Person of the Week, 1996 Jan 26

California State University Alumni Award, 1996

California State Senate Certificate of Recognition, 1996 May 1

San Francisco State University Alumnus of the Year, 1996

NEWSWEEK 100 Americans for the Next Century, 1997 Apr 21

San Francisco State University Hall of Fame, 1997

International Astronomical Union Bioastronomy Medal, 1997

Extrasolar Planetary Foundation - Bernard Oliver Memorial Award, 1998

Popular Science Magazine - Achievement in Science Award, 1999

American Astronomical Society Centennial Lecturer, 2000

World Economic Forum - Invited Panelist (Davos Switzerland), 2001 Jan

National Academy of Sciences - Henry Draper Medal, 2001

University of Maryland College of Physical Sciences Distinguished Alumnus Award, 2001

Planetary Society & American Astronautical Society - Carl Sagan Memorial Award, 2002

Discovery Magazine - Space Scientist of the Year, 2003 Nov

University of Maryland International Alumnus Award, 2004

Fellow, American Academy of Arts and Sciences, 2011

Grants (PI)

NSF Stellar Astronomy & Astrophysics, 2000–2003, \$330K
 NSF Major Research Instrumentation, 2001–2004, \$280K
 NASA Origins of Solar Systems, 2002–2005, \$150K
 NSF Stellar Astronomy & Astrophysics, 2003–2006, \$404K
 NASA NAI Directors Discretionary Fund, 2006–2007, \$80K
 NASA Origins of Solar Systems, 2007–2010, \$450K
 NASA Origins of Solar Systems, 2012–2015, \$300K

Grants (Co-I)

NSF RUI Program, 1996–99, \$331K
 NASA Origins, 1996–97, \$70K
 SUN Microsystems, 1996, \$60K
 NASA Origins, 1997–99, \$160K
 SUN Microsystems, 1997, \$80K
 NSF Galactic Astronomy Program, 1997–2000, \$209K
 NASA Origins, 1999–2001, \$378K
 SUN Microsystems, 1999, \$100K
 NASA SIM Key Project, 2000–
 NASA Origins of Solar Systems, 2002–2005, \$450K
 NSF Stellar Astronomy & Astrophysics, 2003–2008, \$710K
 NSF Stellar Astronomy & Astrophysics, 2009–2014, \$1M

Community Service

IAU Commission 30, Consultant, 1997–
 IAU Colloquium 170, Precise Stellar Radial Velocities, SOC, 1998
 IAU Extrasolar Planets Technical Working Group, 1999–2006
 Carnegie Capital Campaign, Instrumentation Group, 2000–2001
 NSF Advanced Astronomical Technologies and Instrumentation Panel, 2001
 October Astrophysics Conference in Maryland, SOC, 2003
 Keck Observatory Users Group, 2003–2004
 IAU IAU Commission 53 (Extrasolar Planets), Organizing Committee, 2006–
 NASA Keck/IRTF MOWG, 2007–09
 NSF Math & Physical Sciences Advisory Committee, 2010–12

Invited Talks

Center for EUV Astrophysics (Berkeley), 1995 Dec
 Lawrence Livermore National Laboratory, IGPP, 1996 Feb
 University of Maryland Astronomy, 1996 Apr
 UC Santa Barbara Physics, 1996 Apr
 SUNY Stony Brook Astronomy, 1996 May
 Princeton Astronomy, 1996 May
 NASA Space Radiation Health Program (Riverside CA), 1996 May
 IAU Colloquium 161, Bioastronomy (Capri), 1996 July
 Astronomical Data Analysis (ADASS) (Charlottesville VA), 1996 Sept
 Chesley Bonestell Public Lecture (Monterey CA), 1996 Nov
 UC San Diego Physics, 1996 Nov

Lawrence Livermore National Laboratory, High Energy Physics, 1997 Feb
 UC Irvine Physics, 1997 Apr
 Shanghai Observatory (China), 1997 Apr
 IAU 23rd General Assembly, JD13 Extrasolar Planets (Kyoto), 1997 Aug
 University of Lleida 700th Anniversary (Spain), 1997 Sept
 Sydney Association for Astrophysics, 1997 Nov
 International Conference on SETI in the 21st Century (Sydney), 1998 Jan
 Queen's University at Kingston Astronomy (Ontario), 1998 Jan
 Canadian Institute for Theoretical Astrophysics (Toronto), 1998 Jan
 Mt Stromlo and Siding Springs Observatories (Canberra), 1998 Feb
 European Geophysical Society 23rd General Assembly (Nice), 1998 Apr
 Rutherford Appleton Laboratory, Space Science (UK), 1998 Apr
 EUROCONFERENCE: Extrasolar Planets (Lisbon), 1998 Apr
 Royal Observatory Edinburgh, 1998 Apr
 University of St. Andrews Astronomy (Scotland), 1998 May
 University of Maryland Astronomy, 1998 Sept
 Sydney Observatory Public Lecture, 1999 Jan
 AAAS Annual Meeting (Anaheim), 1999 Jan
 University of Sydney Physics 1999 Mar
 Macquarie University Public Lecture (Sydney), 1999 May
 University of New South Wales Physics (Sydney), 1999 May
 Gordon Conference, Origins of Solar Systems (New Hampshire), 1999 June
 NASA Goddard Laboratory for Astronomy and Solar Physics, 1999 Nov
 National Institute of Standards and Technology (Gaithersburg MD), 1999 Dec
 Department of Terrestrial Magnetism (Washington DC), 2000 Jan
 New York Center for Studies on the Origins of Life (Rensselaer), 2000 Mar
 University of Virginia Astronomy, 2000 Apr
 American Physical Society (Long Beach CA), 2000 Apr
 Carnegie Observatories (Pasadena), 2000 May
 Space Telescope Science Institute (Baltimore), 2000 May
 IAU 24th General Assembly, Symposium 202 (Manchester UK), 2000 Aug
 Yale University Astrobiology Seminar, 2000 Sept
 Alexander von Humboldt Association, U.S. Naval Observatory, 2000 Oct
 Carnegie Institution Capital Science Lecture (Washington DC), 2000 Oct
 Arizona State University Physics, 2000 Dec
 NASA Astrobiology Institute General Meeting (Washington DC), 2001 Apr
 Columbia University Physics, 2001 Apr
 National Air & Space Museum Public Lecture (Washington DC), 2001 Apr
 University of Washington Astrobiology Conference, 2001 Aug
 Philosophical Society of Washington Public Lecture (Washington DC), 2001 Sept
 University of Washington Astronomy (Seattle), 2001 Oct
 University of Victoria Physics (British Columbia), 2001 Oct
 American Astronomical Society Centennial Lecture, University of Victoria, 2001 Oct
 University of Calgary Physics, 2002 Apr
 American Astronomical Society Centennial Lecture Series, Calgary Science Centre, 2002 Apr
 National Capital Astronomers Public Lecture (Bethesda MD), 2002 Jun

American Astronomical Society Centennial Lecture (Kansas), 2002 Jun
 The Summer Science Program (Ojai CA), 2002 Aug
 Catholic University Physics (Washington DC), 2002 Nov
 Carnegie Observatories Centennial Lecture (Pasadena CA), 2003 May
 Pontificia Universidad Catolica de Chile Astronomy (Santiago), 2003 May
 The Summer Science Program (Socorro NM), 2003 Jun
 Gordon Confernce, Origins of Life (Bates College, Maine), 2003 July
 American Geophysical Union Carl Sagan Lecture (San Francisco), 2003 Dec
 Dartmouth University Physics (Hanover NH), 2004 May
 The Summer Science Program (Ojai CA), 2004 Jul
 Keck Observatory Public Lecture (Waimea HI), 2004 August
 San Francisco State University Public Lecture, 2004 August
 American Astronomical Society Centennial Lecture (North Carolina), 2004 Sep
 North Carolina Astronomers Meeting, Guilford Technical Community College, 2004 Sep
 National Academy of Sciences, Beckman Frontiers of Science Symposium (Irvine CA), 2004
 Wesleyan University Astronomy (Middletown, CT), 2005 Feb
 Queen's University Astronomy (Belfast), 2005 Mar
 Queen's University Public Lecture (Belfast), 2005 Mar
 University of Virginia Astronomy, 2005 March
 American Museum of Natural History Astrophysics (NY), 2005 Mar
 Isaac Asimov Panel, American Museum of Natural History, 2005 Mar
 Mt Stromlo and Siding Springs Observatories (Canberra), 2005 Apr
 National Space Society Annual Meeting (Washington DC), 2005 May
 University of Concepcion Astronomy (Chile), 2005 June
 U.S. Naval Observatory (Washington DC), 2006 May
 CosmoCaixa Science Museum (Barcelona Spain), 2006 Oct
 CSIS Science Museum (Lleida, Spain), 2006 Oct
 CosmoCaixa Science Museum (Madrid, Spain), 2006 Oct
 Purple Mountain Observatory (Nanjing, China), 2007 May
 Nanjing University China Astronomy, 2007 May
 MIT Astrophysics 2008 May
 Keck Observatory Public Lecture (Waimea HI), 2008 July
 SOCHIAS (Annual Chilean Astronomy Meeting), (Santiago), 2009 Jan
 NIST Atomic Spectroscopy, (Gaithersburg MD), 2009 Jul
 NASA Goddard Exoplanets and Stellar Astrophysics, 2009 Sep
 Space Telescope Science Institute (Baltimore), 2010 Jan
 NIST Colloquium, (Gaithersburg MD), 2010 Jan
 Philosophical Society of Washington Public Lecture (Washington DC), 2010 Apr
 Cal State Northridge Physics, 2010 Apr
 Magellan 10th Anniversary Meeting, 2011 Apr
 College of Charleston Physics, 2011 Sep
 Stellar Oscillations Network Group (Charleston), 2011 Sep
 Carnegie Capital Science Lecture, 2011 Oct
 Naval Research Laboratory Colloquium, 2012 Mar
 University of Louisville Physics Colloquium, 2012 Mar
 Middle Atlantic Planetarium Society (Toms River NJ), 2012 May

Explorers Club Public Lecture (NYC), 2012 May
 NIST Atomic Spectroscopy (Gaithersburg MD), 2013 Jan
 University of Chile Astronomy (Santiago), 2013 Aug
 Astrobio 2013 (Santiago), 2013 Dec
 Australian Astronomical Observatory (Sydney), 2014 Mar
 Swinburne University of Technology Astronomy (Melbourne), 2014 May
 Pontificia Universidad Catolica de Chile Astronomy (Santiago), 2014 Jun
 University of Wyoming Physics & Astronomy (Laramie), 2014 Sep
 Department of Terrestrial Magnetism (Washington DC), 2016 Jul
 University of Waterloo Physics & Astronomy (Canada), 2016 Sep
 University of Michigan Astronomy, 2016 Oct

Selected Media Coverage & Public Outreach

Washington Post, Front page, 1995 Oct 19
 ABC NIGHTLINE, 1995 Oct 19
 International Tribune, Front page, 1995 Oct 20
 New York Times, Page 4, 1995 Oct 20
 Science News, Page 260, 1995 Oct 21
 NBC Today Show, 1995 Oct 23
 Spiegel TV (Germany), 1995 Oct 23
 U.S. News and World Report, Page 69, 1995 Oct 30
 NEWSWEEK, Page 86, 1995 Oct 30
 Science News, Cover story, 1995 Nov 18
 Sky & Telescope, Cover story, 1996 Jan
 Scientific American, Page 22, 1996 Jan
 CNN News, 1996 Jan 17
 New York Times, Front page, 1996 Jan 18
 Washington Post, Front page, 1996 Jan 18
 London Times, Front page, 1996 Jan 18
 CBS Evening News, 1996 Jan 18
 Le Monde, Front page, 1996 Jan 20
 New York Times, Science Tuesday, 1996 Jan 23
 ABC Evening News, 1996 Jan 26
 Science News, Page 52, 1996 Jan 27
 U.S. News and World Report, Page 67, 1996 Jan 29
 NEWSWEEK, Page 52, 1996 Jan 29
 TIME for Kids, Cover story, 1996 Feb 2
 TIME, Cover story, 1996 Feb 6
 Astronomy Magazine, Cover story, 1996 Apr
 Washington Post, Page 3, 1996 Apr 13
 Washington Post Sunday Magazine, Cover story, 1996 Apr 14
 CNN News, 1996 Apr 22
 Science News, Page 267, 1996 Apr 27
 BBC Breakfast Show TV (UK), 1996 Apr 29
 Science News, Page 373, 1996 June 15
 CNN News, 1996 June 22
 Science News, Page 11, 1996 July 6

KBS World Today TV (Korea), 1996 July 7
ABC NIGHTLINE, 1996 July 16
Archimedes, Interscience Film (Germany), 1996 Sept 24
Science News, Page 262, 1996 Oct 26
Scientific American, Page 20, 1996 Nov 26
Washington Post, Front page, 1996 Dec 25
New York Times, Front page, 1997 Feb 9
PBS Hunt for Alien Worlds, 1997 Feb 18
SVT Supernova (Sweden), 1997 Mar 3
The Learning Channel, 1997 Mar 26
Astronomy Magazine, Cover story, 1997 Apr
NEWSWEEK, Page 41, 1997 Apr 21
PBS Mysteries of Deep Space, 1997 Apr 28
Discovery Channel, 1997 July 6
Smithsonian Magazine, Page 72, 1997 Sept
Border TV (UK), Innovators, 1997 Dec
Sky & Telescope, Cover story, 1998 Mar
New York Times, Front page, 1998 June 26
Washington Post, Page 2, 1998 June 26
Science News, Page 405, 1998 June 27
Astronomy Magazine, Page 58, 1998 July
Science News, Page 88, 1998 Aug 8
Astronomy Magazine, Page 52, 1998 Sept
Washington Post, Page 3, 1998 Sept 24
New York Times, Page 16, 1998 Sept 24
Science News, Page 197, 1998 Sept 26
Science News, Page 362, 1998 Dec 5
CNN News, Newstand CNN-TIME, 1999 Jan 10
Sky & Telescope, Page 22, 1999 Feb
New York Times, Science Tuesday, 1999 Mar 2
Washington Post, Front page, 1999 Apr 16
New York Times, Front page, 1999 Apr 16
Science News, Page 244, 1999 Apr 17
Today Show on Saturday (Australia), 1999 Apr 17
Sky News Australia, 1999 Apr 17
NEWSWEEK, Page 62, 1999 Apr 26
National Geographic, 1999 Oct
PBS Life Beyond Earth, 1999 Nov 10
Washington Post, Page 2, 1999 Nov 14
London Times, Front page, 1999 Nov 15
New York Times, Science Tuesday, 1999 Nov 16
Science News, Page 324, 1999 Nov 20
Washington Post, Page 3, 1999 Nov 30
New York Times, Page 19, 1999 Nov 30
Washington Post, Front page, 2000 Mar 30
New York Times, Page 16, 2000 Mar 30

Science News, Page 220, 2000 Apr 1
Bayerischer Rundfunk (Bavaria TV), Futura (Germany), 2000 Apr
New York Times, Front page, 2001 Jan 10
Washington Post, Page 2, 2001 Jan 10
The London Times, Front Page, 2001 Jan 10
Science News, Page 22, 2001 Jan 13
New York Times, Science Tuesday, Page D2, 2001 Jan 16
U.S. News and World Report, 2001 Jan 22
New York Times, 2001 Feb 1
Science, Page 2325, 2001 Mar 23
Washington Post, Front Page, 2001 Aug 16
New York Times, Page 16, 2001 Aug 16
Science News, Page 100, 2001 Aug 18
NHK TV (Japan), Search for Another Earth, 2001 Sept 23
New York Times, Front Page, 2002 Jun 14
Washington Post, Page 3, 2002 Jun 14
NBC Today Show, 2002 Jun 15
Science News, Page 371, 2002 Jun 15
U.S. News and World Report, Page 64, 2002 Jun 24
TIME, Page 53, 2002 Jun 24
Current Biography, Page 41, 2002 Nov
Discovery Channel (Canada), 2002
KBS1 TV (Korea), 2003 Apr 30
New York Times, Page 16, 2003 Jul 4
Washington Post, Page 3, 2004 Sep 1
New York Times, Page 16, 2004 Sep 1
Science News, Page 147, 2004 Sep 4
New York Times, Science Tuesday, Page D1, 2004 Sep 21
PBS NOVA Origins, 2004 Sep 29
Washington Post, Page 3, 2005 Jun 14
New York Times, Science Tuesday, 2005 Jun 14
Washington Post, Front Page, 2008 Jul 20
ABC TV (Australia), Catalyst, 2009 Sep 10
New York Times, Page D1, 2014 May 13
New York Times, Page 11, 2016 Aug 25
Washington Post, 2016 Aug 25
New York Times, 2016 Aug 31