

CURRICULUM VITAE

DOUGLAS P. HAMILTON

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Education

Cornell University, Ithaca NY 1988-1993.

Ph.D. Applied Physics, January 1994.

M.S. Applied Physics, August 1990.

Stanford University, Stanford CA 1984-1988.

B.S. Physics with Distinction and Honors, June 1988.

Academic Honors

Dean's Award for Excellence in Teaching 2008.

U. Maryland Parents Association, Outstanding Faculty Nominee 2003.

Certificate of Teaching Excellence 2003.

Asteroid 12494 DH11 renamed Doughamilton 2000.

Harold C. Urey Prize for Outstanding Research in Planetary Science 1999.

NSF CAREER Award "Orbital Dynamics of Solar System Dust" 1998-2003.

Dean's Award for Excellence in Teaching 1997.

Max Planck Stipendium 1994-1995.

NSF-NATO Postdoctoral Fellowship in Science and Engineering 1993-1995.

NASA Space Grant Fellowship 1991.

Sage Graduate Fellowship 1988-1989.

Phi Beta Kappa 1987.

Positions Held

Professor.

University of Maryland at College Park, Astronomy Department, 7/2007 – Present.

Associate Professor.

University of Maryland at College Park, Astronomy Department, 7/2000 – 6/2007.

Assistant Professor.

University of Maryland at College Park, Astronomy Department, 9/1995 – 6/2000.

Postdoctoral Research Scientist - Supervisor: Dr. Eberhard Grün.

Max Planck Institut für Kernphysik, Heidelberg Germany, 12/1993 – 9/1995.

Graduate Research Assistant - Advisor: Dr. Joseph Burns.

Cornell University, Astronomy Department, 7/1988 – 11/1993.

Professional Activities

Co-Investigator with the Galileo Dust Detection System (DDS) Team.

Member of *Icarus* editorial board (1999-2002); Planetary Data System Rings Node Advisory Council (1997-Present); DPS Prize Committee (2000-2003); DDA Committee (2003-2005); DDA Student Participation Committee (2005-2007); AAS Millennium Speaker (2000-2003); AAS Shapley Lecturer (2006-Present); AAS, AGU, DDA, DPS and IAU societies.

Reviewer on over 100 occasions for: *Advances in Space Research*; *AIAA Journal of Spacecraft and Rockets*; *Astrobiology*; *Astronomical Journal*; *Astronomy & Astrophysics*; *Astrophysics and Space Science*; *Celestial Mechanics*; *Europhysics Letters*; *Geophysical Research Letters*; *Icarus*; *Journal of the Astronautical Sciences*; *Journal of Geophysical Research*; *Monthly Notices of the Royal Astronomical Society*; *Nature*; *New Astronomy*; *Planetary and Space Science*; *Science*; American Astronomical Society; A.S.P. Conference Series; Cambridge University Press; Encyclopedia of the Solar System; Fund for the Improvement of Postsecondary Education; FWF der Wissenschaftsfonds; HST cycle 14; NASA; NSF; Planetary Data System; Research Corporation; U. of Arizona Press, Wiley Publishers.

Research Interests

Solar System Dynamics: Orbital Evolution; Celestial Mechanics; Resonances; Numerical Methods; Rotational Dynamics; Charged Particle Motion.

Planetary Science: Circumplanetary, Interplanetary, and Interstellar Dust; Planets; Satellites; Rings; Asteroids; Comets; Magnetic Fields; Teaching Methods.

Origins: Satellite and Ring Systems; The Solar System; Extrasolar Planets.

Astrophysics: Black Holes; Neutron Stars; Globular Clusters.

Recent Invited Talks

Colloquium (2009), U. Braunschweig, Germany. When Neptune met Triton.

Colloquium (2009), Max Planck Institut, Lindau Germany. Jupiter's Ring System.

Juno Team Meeting (2009), Nice, France. Juno's visit to Jupiter's Ring System.

Colloquium (2009), Queen Mary U. London. Tilting Saturn.

Colloquium (2009), U. Canterbury, New Zealand. Jupiter's Ring System.

Colloquium (2009) Monash U., Australia. When Neptune met Triton.

Colloquium (2008), U. Canterbury, New Zealand. Tilting the Planets.

Colloquium (2008), U. Canterbury, New Zealand. When Neptune met Triton.

Colloquium, Goddard (2008), Dynamics of Jupiter's Gossamer Rings.

Colloquium, Goddard (2007), Origin of Neptune's Satellites.

Workshop, The Netherlands (2007), The Orbital History of Triton.

Colloquium, UBC (2007), Dust as Tracers of Planetary Formation.

Colloquium, Rutgers (2007), Neptune's Satellite Triton.

Recent Grants

CoI: NASA Jupiter Data Analysis "Structure of Jupiter's Ring" (2009-2011).

PI: NASA Outer Planets "Dust Dynamics at Saturn" (2008-2010).

PI: NASA Origins "Origin and Evolution of Planetary Satellites" (2007-2009).

PI: NASA Origins EPO "Evaluating the Astronomy Workshop" (2007-2009).

CoI: multiple HST and Spitzer projects "Solar System Observations" (2007-2010).

Teaching Experience

Graduate: Formation of the Solar System; Orbital Dynamics, Planetary Science.

Undergraduate: The Solar System; Orbital Dynamics; Collisions in Space; Introduction to Astronomy. Energy Resources and Policy. Introductory Astrophysics.

Outreach: Developed the Astronomy Workshop, an interactive set of online educational tools that has received multiple awards - see <http://janus.astro.umd.edu/>.

Scientific Publications

Nearly 100 - see <http://www.astro.umd.edu/~hamilton/research/pubs.html>.