

Curriculum Vitae (Short Version)

David A. Crown

Senior Scientist

Planetary Science Institute

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Education

Ph.D., Geology, Arizona State University, 1991, Dissertation “Volcanism in the Eastern Hellas Region of Mars: The Geology of Hadriaca and Tyrrhena Paterae,” 229 pp. (Faculty Advisor: Ronald Greeley).

B.S., Geology-Physics/Mathematics (Magna Cum Laude, Honors), Brown University, 1985, Thesis “Spectral Properties of Plagioclase and Pyroxene Mixtures,” 64 pp. (Thesis Advisor: Carle Pieters).

New Trier High School East, 1981 (Winnetka, IL)

Professional Experience

2001- Research Scientist (2001), Senior Scientist (2002-), and Assistant Director (2006-2014), PSI
1994-2007 Assistant (1994-2001), Adjunct Assistant (2001-2004), and Adjunct Associate (2004-2007)
Professor, Department of Geology and Planetary Science, University of Pittsburgh
2000-2002 Consultant, EventScope Project, Carnegie Mellon University
1992-1993 National Research Council Research Associate, Jet Propulsion Laboratory
1985-1991 Graduate Research Associate, Department of Geology, Arizona State University
1984-1985 Research Assistant, Department of Geological Sciences, Brown University

Research Interests and Activities

- Planetary geology, physical volcanology, and remote sensing
- Use of spacecraft and airborne remote sensing data for geologic analyses of planetary surfaces
- Geologic mapping of Mars, Venus, Io, and Ceres
- Field investigations of volcanic deposits
- Development and application of emplacement models for geologic flows

Current Research Grants (2023; * PI; ^ Co-I)

NASA MDAP, *Evolution of Martian Lava Flow Fields: Investigations of Pāhoehoe-like Flow Morphologies in the Tharsis and Elysium Volcanic Provinces**

NASA MDAP, *Geologic Evolution of the Western Flank of Alba Mons, Mars**

NASA MDAP, *Geology of the Southern Rim of Hellas Basin, Mars: Investigations of Amphitrites Patera and Barnard Crater**

NASA SSW, *Geologic Mapping of Gusev Crater Informed by Comparative Studies of Volcanic Embayment Relationships on Earth and Mars**

NASA MDAP, *Geologic Map of Southern Circum-Chryse and Margaritifer Terra, Mars^*

NASA DDAP, *High-Resolution Geologic Mapping of Urvara Crater, Ceres^*

NASA PDART, *The Global Geologic Map of Ceres from Dawn^*

Memberships in Professional Societies

2006- Affiliate Member, Division for Planetary Sciences, American Astronomical Society

1999- Member, International Association of Volcanology and Chemistry of the Earth's
Interior (IAVCEI)

1990- Member, Geological Society of America

1986- Member, American Geophysical Union

1985- Member, Sigma Xi Science Research Honor Society