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RESEARCH EXPERIENCE

Principal Investigator, *SETI Institute, NASA Ames Research Center* — *2006 – present*
Postdoctoral Research Associate, *Arizona State University* — *2003 – 2006*
Geologist, *United States Geological Survey, Flagstaff* — *2000 – 2002*
Graduate Research Assistant, *California Institute of Technology* — *1996 – 2003*

EDUCATION

California Institute of Technology — *2003*
Ph.D. in Planetary Science
Thesis: *Aeolian Processes on Mars: Atmospheric Modeling and GIS Analysis,* Advisor: Arden L. Albee

University of Maryland, College Park — *1996*
B.S. in Astronomy (with High Honors) and Physics (with High Honors)
Thesis: *Mapping Mariner 9 Dust Opacities,* Advisor: John C. Pearl

AWARDS AND ACTIVITIES

Planetary Dunes Workshop: A Record of Climate Change, *Organizing Committee Member* — *Apr. 2008*
Workshop on Martian Gullies: Theories and Tests, *Organizing Committee Member* — *Feb. 2008*
NASA Carl Sagan Fellowship for Early Career Researchers — *2006*
American Geophysical Union, *Member* — *2001 – present*
Geological Society of America, *Member* — *2007 – present*

PUBLICATIONS

Hayward, R. K., Mullins, K. F., Fenton, L. K., Hare, T. M., Titus, T. N., Bourke, M. C., Colaprete, A., and Christensen, P. R. (2007), Mars Global Digital Dune Database and initial science results, *J. Geophys. Res., 112,* E11007, doi:10.1029/2007JE002943.

Fenton, L. K., P. E. Geissler, and R. M. Haberle (2007), Global warming and climate forcing by recent albedo changes on Mars, *Nature, 446,* doi:10.1038/nature.05718.

Fenton, L. K. (2006), Dune migration and slip face advancement in the Rabe Crater dune field, Mars, *Geophys. Res. Lett, 33,* L20201, doi:10.1029/2006GL027133.

Fenton, L. K. and M. T. Mellon (2006), Thermal properties of sand from Thermal Emission Spectrometer (TES) and Thermal Emission Imaging System (THEMIS): Spatial variations within the Proctor Crater dune field on Mars, *J. Geophys. Res, 111,* E06014, doi:10.1029/2004JE002363.

Fenton, L. K. (2005), Potential sand sources for the dune fields in Noachis Terra, Mars, *J. Geophys. Res. 110,* E11004, doi:10.1029/2005JE002436.

Fenton, L. K., A. D. Toigo, and M. I. Richardson (2005), Aeolian processes in Proctor Crater on Mars: Mesoscale modeling of dune-forming winds, *J. Geophys. Res., 110,* E06005, doi:10.1029/2004JE002309.

Fenton, L. K., A. W. Ward, and J. L. Bandfield (2003), Aeolian processes in Proctor Crater on Mars: Sedimentary history as analyzed from multiple data sets, *J. Geophys. Res., 108*(E12), 5129, doi:10.1029/2002JE002015.

Fenton, L. K. and M. I. Richardson, Martian surface winds: Insensitivity to orbital changes and implications for aeolian processes, *J. Geophys. Res., 106*(E12), 32,885-32,902.

Fenton, L. K. and K. E. Herkenhoff (2000), Topography and stratigraphy of the northern Martian layered deposits using photoclinometry, stereogrammetry, and MOLA altimetry, *Icarus, 147,* 433-443.
Fenton, L. K., J. C. Pearl, and T. Z. Martin (1997), Mapping Mariner 9 dust opacities, *Icarus, 130,* 115-124.