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## EDUCATION:

**Ph.D. Candidate Geology**, (GPA = 3.952), 2004 – current

University of Pittsburgh, Department of Geology & Planetary Science

**NASA Earth System Science (ESS) Graduate Student Fellowship Award, Sept 06 - Aug 09**

*Dissertation Topic:* Thermal Remote Sensing of Aeolian Systems. Advisors: Dr. M. Ramsey & Dr. N. Lancaster

**M.S. Geological Science**, (GPA = 3.625), 1999 - 2002

University of South Carolina, Department of Geological Sciences

**B.S. Environmental Sciences**, Graduated Cum Laude (GPA = 3.315), 1995 - 1999

University of Toledo, Department of Earth, Ecological & Environmental Sciences

## PROFESSIONAL EMPLOYMENT:

**Shield Environmental Associates, Inc.**

*Staff Geoscientist, Mar 2003 – June 2004*

**Research Planning, Inc.**

*Geologist and Field Team Supervisor, Sept 2002 – Feb 2003*

## ABSTRACTS and PUBLICATIONS:

**Scheidt, S.P.**, Ramsey, M.S., and Lancaster, N., Determining soil moisture and sediment availability at White Sands Dune Field, NM from apparent thermal inertia data, *J. Geophys. Res.*, submitted.

Katra, I., **Scheidt, S.P.**, and Lancaster, N. Changes in active eolian sand at northern Coachella Valley, California, *Geomorphology*, 105, p. 277-290, doi: 10.1016/j.geomorph.2008.10.004, 2008.

**Scheidt, S.P.**, Ramsey, M.S., and Lancaster, N., Thermal remote sensing of sand transport systems, in *Planetary Dunes Workshop: A Record of Climate Change*, Lun. Planetary Instit. No. 1403, p. 62, 2008.

**Scheidt, S.P.**, Ramsey, M.S., and Lancaster, N., Image mosaic generation of ASTER thermal infrared data: An application to extensive sand sheets and dune fields, *Rem. Sens. Environ.*, 112, 920-933, doi: 10.1016/j.rse.2007.06.020, 2008.

**Scheidt, S.P.**, Ramsey, M.S., and Lancaster, N., Integration of ASTER TIR data and the Google Earth application to examine the relationships between sand transport pathways and dust emission hotspots, *Eos Trans. AGU*, 88(52): Fall Meet. Suppl., Abstract NG41C-0667, 2007.

**Scheidt, S.P.**, Composition of potential dust source areas in the Sahara Desert using ASTER TIR, 30th ASTER Science Team Meeting, Pasadena, CA, December 7, 2006.

**Scheidt, S.P.**, Comparison of ASTER 15-band spectral classification to field survey and TIR linear deconvolution compositional mapping, 30th ASTER Science Team Meeting, Pasadena, CA, December 7, 2006.

**Scheidt, S.P.**, Ramsey, M.S., and Lancaster, N. Fusion of multitemporal/multispectral satellite data for the Gran Desierto: Implications for long distance sand transport, Sixth International Conference on Aeolian Research Meeting (ICAR), University of Guelph, Ontario, Canada, July 24 – 26, 2006.