# **E. Michelle Neely**

Advisor: Shan de Silva •B.S. - Geology, Space & Planetary Science minor, Portland State University, 2014 •Graduate GIS Certificate, expected June 2016

## **Research and Other Interests:**

Planetary geomorphology, arid landscape evolution (aeolian, cryotic), igneous weathering and transport, igneous petrology, remote sensing, GIS, geovisualization, science education and public outreach

### **Masters Thesis:**

Gravel-mantled aeolian bedforms in the Argentine Puna: spatial pattern analysis, and their implications as analogs for Transverse Aeolian Ridges (TARs) on Mars

### **Research Objectives:**

- 1) Understand the relationship between Puna bedform patterns and local winds
- 2) Understand the relationship between Puna bedforms and underlying bedrock topography
- 3) Compare Puna bedform fields to analogous Martian TAR fields

## **Recent Publications / Presentations:**

Neely, E.M., Spagnuolo, M.G., de Silva, S.L., Bridges, N.T., Zimbelman, J.R., 2014, Methodology of wind tunnel experiments applied to gravel megaripple formation on Earth and Mars, Poster presented at the 45th Annual Lunar and Planetary Conference, Abs. #2767. Puna bedform field. Note the pattern change near bedrock topograph in the upper right (Image credit: CNES).

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