

# Nadja Insel – Curriculum Vitae

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## Education:

- 2005-present **PhD Candidate**, Geological Sciences, University of Michigan  
*Dissertation: South American Climate Dynamics and Evolution of the Andes*  
Advisors: Todd Ehlers and Chris Poulsen
- 2002-2005 **Graduate Student**, Geosciences, University of Potsdam, Germany  
Diploma in Geology (with honors)  
*Thesis: "Pre-Neogene tectonic evolution of the Puna plateau, NW-Argentina: Constraints from U-Pb zircon and  $^{40}\text{Ar}/^{39}\text{Ar}$  K-feldspar thermochronology"*  
Advisors: Manfred Strecker, University of Potsdam and Michael Haschke, GFZ Potsdam
- Summer 2002 **DAAD-short course participant**, Geosciences, University of Potsdam, Germany  
Title: "Geology, geomorphology, and paleoseismology of tectonically active regions" led by J Ramon Arrowsmith (Arizona State University), Anke Friedrich, and Manfred Strecker (both University of Potsdam)
- 1999-2002 **Undergraduate Student**, Geosciences, University of Potsdam, Germany  
Pre-Diploma in Geosciences

## Work Experience:

- 2005 - present **Research/Teaching Assistant**, Geological Sciences, University of Michigan  
Courses: GS442 Land Surface Processes and Soils (fall 2008)  
118/119 Introduction Geology (winter 2008)  
GS351 Structural Geology (winter 2007)  
GS440 Geology Field Course at Camp Davis in Jackson Hole (summer 2006)
- May-July 2008 **Intern**, Shell, Exploration and Production, Houston, TX  
Brazil Pre-Salt Task Force, Regional Studies – Analogue Team
- 2000 - 2005 **Research/Teaching Assistant**, Geosciences, University of Potsdam, Germany  
Mineral separation, digitalization of country models, catalog of rocks and minerals  
Course: Identification of rocks and minerals (fall & winter 2002/2003, fall & winter 2004/2005)
- Feb-April 2003 **Intern**, Division of Earth Sciences, UNESCO, Nairobi, Kenya  
Digitalization of geological overview maps

### **Scholarships, fellowships, grants:**

**Scott Turner Award in Earth Sciences**, University of Michigan, 2009  
Cenozoic climate and elevation change of the Andean Plateau

**Rackham International Students Fellowship**, University of Michigan, 2007  
Climate change, Tectonics, and Erosion of the Andes Mountains

**Scott Turner Award in Earth Sciences**, University of Michigan, 2007  
Quaternary Climate Variability and Erosion in the Central Andes

**Scott Turner Award in Earth Sciences**, University of Michigan, 2006  
Climate control on mountain building processes in the central Andes

**Graduate Student Fellowship**, University of Michigan, 2005-2006

### **Publications:**

**Insel, N.**, C.J. Poulsen, and T.A. Ehlers, 2009, Influence of the Andes Mountains on South American Moisture Transport, Convection, and Precipitation. *Climate Dynamics*.  
doi:10.1007/s00382-009-0637-1

- the article was highlighted in *Nature Geoscience*:  
Langenberg, H., 2009, Climate science: Andean rainfall, *Nature Geoscience*, 2, 607

**Insel, N.**, T.A. Ehlers, M. Schaller, (in review), Temporal and Spatial Variability in Denudation Across the Central Andes, Bolivia. *Geomorphology*

### **Abstracts, Presentations at professional meetings:**

**Insel, N.**, Poulsen, C.J., Sturm, C., Ehlers, T.A., 2009. Paleo and Present  $\delta^{18}\text{O}$  Variability of Central Andean Precipitation: Constraints from Isotope-Tracking Climate Models; GSA, Ann. Meet.

**Insel, N.**, Poulsen, C.J., Ehlers, T.A., 2008. Influence of Andean Plateau Rise on South American Climate Dynamics; *Eos, Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract T42A-01

**Insel, N.**, Ehlers, T.A., Schaller, M., 2007. Sensitivity of Denudation Rates to Latitudinal and Orographic Variations in Climate, Central Andes, Bolivia; *Eos, Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract T12D-08

**Insel, N.**, Ehlers, T.A., Poulsen, C.J., Bachynski, E., Schaller, M., 2006. Quantifying Quaternary climate variability and erosion of the central Andes with paleoclimate modeling and cosmogenic  $^{10}\text{Be}$ ; *Eos, Trans. AGU*, 87, Fall Meet. Suppl., Abstract T11A-0413

Haschke, M., Deeken, A., **Insel, N.**, Sobel, E., Grove, M., Schmitt, A., 2005, Growth pattern of the Andean Puna plateau constrained by apatite fission track, apatite (U-Th)/He, K-feldspar  $^{40}\text{Ar}/^{39}\text{Ar}$ , and zircon U-Pb geochronology, ISAG meeting Barcelona

### **Professional Memberships:**

**Geological Society of America**, 2005 - present

**American Geophysical Union**, 2005 - present