

Joel Scheingross
University of California Berkeley
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Education

University of California, Berkeley

August 2003 – December 2007

B.A. Geology

B.S. Environmental Sciences

GPA: 3.80

Thesis topic: The use of species distribution models in determining areas of conservation and measuring the effects of climate change on alpine butterflies.

I coupled known occurrences of alpine insects and spatially referenced climate data to predict species distributions. Models were developed using ArcMap, Diva-GIS, and MaxEnt to examine distributions based on current climate conditions and projected future conditions.

Research Interests

- Sediment transport, bedrock incision, and the role of debris flows in headwater streams
- Interactions between climate, tectonics, and geomorphic processes
- Landscape evolution over short and long time scales
- Feedbacks between stream morphology and ecology

Positions

Junior Specialist, University of California, Berkeley

July 2007 – Present

I am currently involved in several field based projects seeking to understand channel form and processes in mountain landscapes within the South Fork Eel River watershed. These projects include 1) quantifying the amount of sediment transported by fluvial processes in debris flow dominated channels, 2) using cosmogenic isotopes to yield basin wide erosion rates from debris flow fan deposits, and 3) examining the effects of earth flows and deep-seated landslides on channel form and channel head location.

Visiting Student, Monteverde Institute, Costa Rica

October – December 2007

I independently carried out a field experiment examining the effect of substrate size on aquatic insect richness, diversity, and biomass in small, undisturbed tropical streams. While in Costa Rica I also studied Spanish and enrolled in tropical biology and ecology courses.

Undergraduate Assistant, National Center for Earth-Surface Dynamics

July 2007

I assisted graduate students at the University of Genoa (Italy) with flume based experiments examining the morphodynamics of tidal channels.

Undergraduate Fellow, Oregon State University (NSF Research Experience for Undergraduates)

Summer 2006

I designed and implemented a controlled laboratory experiment to examine the effect of variable physical and biological conditions (light, food availability, and water flow) on the vertical position of larval Pacific cod (*Gadus macrocephalus*).

Publications and Presentations

Hurst, TP, Cooper, DW, **Scheingross, JS**, Seale, EM, Laurel, BJ, Spencer, ML, and JT Duffy-Anderson. 2008. Combining laboratory and field observations to model vertical movements of larval Pacific cod (*Gadus macrocephalus*): effects of ontogeny, temperature, and light. *Fisheries Oceanography* (in review).

Scheingross, J.S., S.D. Schoville, and G.K. Roderick. 2007. The use of species distribution models in determining areas of conservation and measuring the effects of climate change on alpine butterflies. Presented at 92nd annual meeting of Ecological Society of America, August 5 - 10, 2007, San Jose, CA, USA. (Abstract-ESA2007).

Awards and honors

UC Berkeley, Earth and Planetary Science Department Citation (2007)
Gold medalist, Geolympics, UC Berkeley (2007)
Charles H. Ramsden Research Fellow, UC Berkeley (2007)

References:

Dr. Bill Dietrich, bill@eps.berkeley.edu, (510) 642-2633
Dr. Thomas Hurst, Thomas.Hurst@noaa.gov, (541) 867-0222
Dr. George Roderick, roderick@berkeley.edu, (510) 643-7430