



PRINCETON UNIVERSITY
DEPARTMENT OF GEOSCIENCES
SENIOR THESIS (Class of '16)



Ryan T. Barker

“U-Pb TIMS-TEA Geochronology and a New Chronostratigraphy
Cañadon Asfalto Basin, Central Patagonia”

B. Schoene

Alyson K. Beveridge

“Measuring the Changing Mass of Glaciers on the Tibetan
Plateau Using Time-Variable Gravity from the Grace
Mission”

F. J. Simons

Ethan C. Campbell

“Where Three Oceans Meet: Nitrate Isotope
Measurements from the South Atlantic Along 34.5°S”

D. Sigman

Alison M. Campion

“Constraining the Timing and Amplitude of Proposed
Glacioeustasy During the Late Paleozoic Ice Age
with a Continuous Carbonate Record in Spain”

B. Schoene

Shanna L. Christian

“Abandoned Oil and Gas Wells in Pennsylvania:
Well Attributes and Effective Permeability”

M. Celia (CEE)

Jay B. Dessy

“Towards Quantifying the Risk of Compound Heat
Wave Events: Projections of Frequency and Severity”

M. Oppenheimer

Collin R. Edwards

“Mining Metagenomic Data to Understand the Lifestyle
of Atmospheric Methane Oxidizing Bacteria in
Antarctic Surface Soil”

T. Onstott

Atleigh G. Forden

“Reconstructing Fish Ecology from Otolith Geochemistry:
Past and Present”

B. Ward

Weber Liu

“Analysis of Martian Topography via A Parameterized Spectral Approach”

F. J. Simons

Rebecca A. Lowy

“Arsenic Adsorption on Fe/Mn-Oxides: Potential of Fe/Mn Nanocrystalline Coated Calcite for Filtration Drinking Water”

S. Myneni

Sophia C. Myers

“An Inter-Trophic Examination of Nitrogen Isotopes Past and Present”

B. Ward

Anteneh (Jimmy) Sarbanes

“Long Term Drought Signature of Standardized Vegetation Index”

E. Wood (CEE)

Anjali Taneja

“An Examination of Climate Variability and International Migration in Sub-Saharan Africa”

M. Oppenheimer

Ethan M. Vasquez

“A Physiological Approach to Determining Ecosystem Productivity in the Arctic”

M. Bender

Fiona M. West

“The Herbivory Cost of N₂ Fixation and its Effect on the Abundance of Nitrogen Fixing Trees in a Tropical Forest”

D. Medvigy

Claire M. Zarakas

“Propagating Uncertainty from Plant Traits to Ecosystem Dynamics in a Dry Tropical Forest”

D. Medvigy