

Andrea Ritch
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EDUCATION

Stanford University

M.S., Earth System Science, expected June 2016

Thesis: *Vapor transport modeling of continental water isotope gradients*

4.0 GPA

California Institute of Technology

B.S. with Honors, Geochemistry, 2014

3.6 GPA

TECHNICAL SKILLS

Programming and data analysis in R, Java, C++, MATLAB, LabVIEW

Process-based modeling of natural/environmental systems

Dataset compilation

Microsoft Office and Adobe Illustrator

EXPERIENCE

Graduate Research Assistant

Stanford University, Department of Earth System Science

Chamberlain Terrestrial Paleoclimate Research Group

September 2014-present

Graduate Teaching Assistant

EARTHSYS 12SC: Environmental and Geologic Field Studies in the Rocky Mountains

Professor C. Page Chamberlain, September 2015

Richter Undergraduate Research Fellow

Magnitude and Timing of the Mid-Holocene Sea-Level Highstand at Belitung Island, Indonesia

Mentors: Dr. Aron Meltzner and Professor Adam Switzer, Earth Observatory of Singapore

June 2013 – June 2014

Undergraduate Teaching Assistant

Gell1a: Earth as a Planet, Professors Jason Saleeby (2013) and John Eiler (2012)

September-December, 2012-2013

Lab Assistant

Stathopoulos Lab, Caltech

6-8 hours/week; maintaining *Drosophila* stocks, washing glassware, preparing reagents

April-June, 2013

Mary Vodopia Summer Undergraduate Research Fellow

Remanent Magnetization from Lightning Strikes: Can We Find Paleolightning on Mars?

Mentor: Professor Joe Kirschvink

June-August, 2012

AWARDS AND HONORS

SanPietro Travel Prize, Caltech, 2014

Doris S. Perpall Speaking Competition, Third Place, Caltech, 2013

Howard Reynolds Memorial Prize in Geology, Caltech Division of Geological and Planetary Sciences, 2012

Venturing Leadership Award, Boy Scouts of America, San Gabriel Valley Council, 2012

National Merit Scholar, 2010