

Steven J. Davis

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EDUCATION

- Ph.D.** Environmental Earth System Science, *Stanford University, Palo Alto, CA* **2008**
Dissertation Advisor: C. Page Chamberlain; Title: “Synorogenic evolution of large-scale drainage patterns: Isotope paleohydrology of sequential Laramide basins”
- J.D.** Virginia School of Law, *University of Virginia, Charlottesville, VA* **2001**
- B.A.** Political Science and Philosophy, *University of Florida, Gainesville, FL* **1998**
Double Major with Honors, Phi Beta Kappa

RESEARCH INTERESTS

Global and regional climate: geological drivers and environmental responses in the modern and geologic past

Landscape Evolution/Surface Processes: evolution of orogenic belts, adjacent sedimentary basins, and large-scale drainage patterns

Mitigation of anthropogenic climate change: harnessing market forces and informing public/business policy by life cycle assessment and modeling of GHG intensity at multiple economic scales

Natural resources law and policy: environmental and health impacts of industrial agriculture, leasing of submerged lands, management of fisheries, rangelands, forests and water

PROFESSIONAL EXPERIENCE

Carnegie Institution of Washington, Stanford, CA	2008-Present
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Research Associate, Department of Global Ecology

- *Conducting research on the coupling of economic value, technology and greenhouse gas emissions under the supervision of Ken Caldeira*

The Climate Conservancy, Palo Alto, CA **2006-Present**

Co-Founder and Chief Executive Officer

- *Officer and board chair of California nonprofit corporation founded to mitigate anthropogenic climate change through bottom-up market mechanisms*

- *Development and application of life cycle assessment protocol and metrics for determining greenhouse gases embodied in consumer packaged goods, using both process-specific, attributional LCA and economic input-output methods*
- *Research and presentation of data regarding the indirect “carbon footprint” of the typical American*

Stable Isotope Biogeochemistry Laboratory, Stanford, CA

2004-Present

Research Assistant

- *Operation and maintenance of MAT 252 and DeltaPlus^{XL} mass spectrometers and Gasbench II, TC-EA, EA and BrF₅ infrared laser lines for determination of stable isotopic composition of oxygen, carbon, hydrogen, and nitrogen in minerals, biomass, and water*
- *Prepared samples for and assisted in operation of MAT 262 TIMS mass spectrometer for determination of strontium isotope composition, ICP-AES for determination of major and trace element chemistry, and both SHRIMP-RG and LA-ICP-MS for U-Pb dating of zircon*

Gray, Cary, Ware & Freidenrich, LLP, Palo Alto, CA

2002-2004

Legal Associate, Corporate and Securities Group

- *Advised and represented private company clients in incorporation, financings, recapitalizations, mergers and acquisitions*
- *Advised and represented publicly-traded companies regarding '33 and '34 Act compliance in initial public offerings, filing of registration statements, public-public mergers, public-private mergers, spin-offs, and filing of regular reports*

PROFESSIONAL AFFILIATIONS

State Bar of California
 Geological Society of America
 American Geophysical Union

PEER-REVIEWED PUBLICATIONS

Davis, S.J., Mulch, A., Carroll, A.R., Horton, T.W. and Chamberlain, C.P. (in press) Paleogene Landscape Evolution of the central North American Cordillera: Developing topography and hydrology in the Laramide Foreland. GSA Bulletin

Davis, S.J., Wiegand, B.A., Carroll, A.R. and Chamberlain, C.P. (in press) The Effect of Drainage Reorganization on Paleogeomorphology Studies: An Example from the Paleogene Laramide Foreland. Earth and Planetary Science Letters

Davis, S.J., Mix, H.T., Wiegand, B.A., Carroll, A.R. and Chamberlain, C.P. (in prep) Synorogenic evolution of large-scale drainage patterns: Isotope paleohydrology of sequential Laramide basins. [For submission to] American Journal of Science

OTHER PUBLICATIONS (NOT PEER-REVIEWED)

Davis, S.J., (2007) Toward a Product-Level Standard: Life Cycle Analysis of Greenhouse Gas Emissions. Published by the City of London in cooperation with the London Accord.

PRESENTATIONS WITH PUBLISHED ABSTRACTS

Davis, S.J. and Sweeney, J.F. (2008) Using Market Forces to Reduce Greenhouse Gas Emissions Through Product-Level Life Cycle Analysis and Eco-Labeling. NCSE Climate Change: Science & Solutions Conference, Washington, D.C.

Davis, S.J., Wiegand, B.A. and Chamberlain, C.P. (2007) Strontium isotopic evidence of shifting inflows to Eocene Lake Uinta in the Laramide foreland of Utah. AGU Fall Meeting, San Francisco

Sweeney, J.F. and *Davis, S.J.* (2007) Using Market Forces to Reduce Greenhouse Gas Emissions Through Product-Level Life Cycle Analysis and Eco-Labeling. AGU Fall Meeting, San Francisco

Davis, S.J., Mulch, A. and Chamberlain, C.P. (2007) Stable isotopic evidence of evolving Laramide landscape in the central North American Cordillera. Goldschmidt Conference, Geochimica et Cosmochimica Acta, v. 71, no. 15, pg. A206

Davis, S. J. and Chamberlain, C.P., (2006) Geochemical Stratigraphies of Paleogene Lakes Uinta, Flagstaff and Claron: Hydrologic, Climatic and Topographic Development in the Laramide Foreland of Utah. GSA Abstracts with Programs, v. 38, no. 7, p. 368.

Weislogel, A.L., *Davis, S.J.* and Graham, S.A., (2005) Stable isotope composition of pedogenic carbonate from the Ordos and Sichuan basins: Record of topography degradation? GSA Abstracts with Programs, v. 37, no. 7, p. 377.

Chamberlain, C. P., Mulch, A., Horton, T.W., Kent-Corson, M., Sherman, L.S., *Davis, S.J.*, Hren, M.T., Tessier, C. (2005) The Cenozoic Rise and Fall of the Western United States. AGU Fall Meeting, San Francisco

TEACHING EXPERIENCE

GES 101 (Summer 2004, 2005, 2006, 2007) **Field Studies in the Rocky Mountains**, Teaching Assistant, Field Guide and Guest Lecturer in course taught by Professor Page Chamberlain

GES 53Q (Fall 2004) **In the Beginning: Theories of the Origin of the Earth, Solar System, & Universe**, Teaching Assistant in course taught by Professor Michael McWilliams

GES 50 (Winter 2005) **The Coastal Zone Environment**, Teaching Assistant in course taught by Professor Jim Ingle

GES 190 (Summer 2005, 2006) **Stratigraphy and Structure of the Warner Range (northeastern California)**, Teaching Assistant and Field Guide in course taught by Professor Elizabeth Miller

GES 1 (Fall 2005) **Fundamentals of Geology**, Teaching Assistant in course taught by Instructor Anne Egger

GES 54Q (Fall 2006) **California Landforms and Plate Tectonics**, Teaching Assistant in course taught by Professor Elizabeth Miller

GES 2 (Winter 2006) **Earth System History**, Teaching Assistant and Guest Lecturer in course taught by Professor Page Chamberlain

GES 110 (Spring 2007) **Structural Geology and Tectonics**, Teaching Assistant and Guest Lecturer in course taught by Professor Elizabeth Miller

GRANTS

2006: Stanford University McGee Research Grant, \$2,000.

2005: Stanford University McGee Research Grant, \$2,500.

ACADEMIC REFERENCES

C. Page Chamberlain, Dissertation Advisor, Stanford University

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PROFESSIONAL REFERENCES

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Jonathan Z. Cannon, Professor and General Faculty Director
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