

CHRISTOPHER DiLEONARDO, Ph.D.

(408) 864-8632 dileonardo@deanza.edu

CURRICULUM VITAE

EDUCATION

Ph.D. Earth Sciences 2001, University of California, Santa Cruz

Dissertation: *The influence of lower plate tectonism on the evolution of accretionary forearc systems.*

Advisor: J. Casey Moore, Ph.D.

M.S. Geology 1987, San José State University

Thesis: *Structural evolution of the Smith Canyon fault, North Cascades, Washington.*

Advisor: Robert Miller, Ph.D.

B.A. Geology (Chemistry Minor) 1984, San José State University

RESEARCH EXPERTISE

Study of the 4-D architecture and evolution of crustal structures and tectonic systems, through the integration of geological, geophysical, and remote sensing data.

Technical Expertise

- Integration of field mapping, structural analysis, geophysical data, and remote sensing using 3-D and 4-D visualization systems.
- Structural analysis at regional (remote sensing, geophysical and field-based), macro (field-based) and micro (optical and imaging microscopy) scales.
- Structural and stratigraphic interpretation of 2-D, 3-D and 4-D seismic reflection data including attribute mapping and integration with borehole geophysical data.
- Analysis and mapping using airborne and spacecraft-based multispectral remote sensing (Thematic Mapper, Landsat, Daedulus Tms), thermal imaging (AVHRR, TIMs, and TM thermal) and ALSM/Lidar imaging.
- Strain analysis and integration with field-based studies.

ACADEMIC EXPERIENCE

De Anza College, Cupertino California, Professor of Geology and Oceanography
September 2009 to Present.

Foothill College, Los Altos Hills, California, Professor of Geology and Oceanography/Head of the Earth Sciences Program: September 1990 to June 2009.

San José State University, San Jose, California, Visiting Lecturer in Geology, January 2007 to May 2008.

De Anza College, Cupertino, California, Geology Instructor (Part-time): April 1986 to September 1991.

College of San Mateo, San Mateo, California, Assistant Professor of Geology and Oceanography (Part-time): August 1987 to June 1990

RESEARCH & PROFESSIONAL EXPERIENCE

Institute of Geophysics and Planetary Physics, UC Santa Cruz, Research Associate: August 2003 to June 2004.

NASA Ames Research Center, Research Fellow: June through September 2000.

University of California Santa Cruz, Graduate Researcher: June through September 1997 and 1998.

Department of Natural Resources, State of Washington, Consulting Research Geologist: Contract periods from June 1985 to January 1986 and from June 1989 to June 1990.

Applied Earth Technology, Redwood City, California, Research Geologist: January 1988 to June 1989.

MARMAC Resources Company, Los Angeles, California, Staff Geologist: May 1981 to October 1982

OTHER EDUCATIONAL EXPERIENCE

Wiley Publishing Company, *Contributing Author and Media Consultant*: Designing ancillary products and instructor manual for *Visualizing Geology* by Murk and Skinner. April 2006 to January 2008.

NASA Ames Research Center, *Educational Consultant*: NASA's *Astroventure* education project.

San Jose Tech Museum, *Educational Consultant*: Teacher workshops and institutes in the earth and physical sciences. November 1998 to January 1999.

CCITT (Community Colleges for Innovative Technology Transfer), *Lead Instructor*: IMPACT (IMage Processing Applied to Classroom Teaching) workshops held at Foothill College, Summer 1997 and 1999 and College of the Mainland, Texas, 1999.

Bay Area Earth Science Institute, San José State University, *Instructor*: Summers 1995 and 1996.

Foothill College, *Lead Instructor*: Science Explored Workshops. Fall 1995

RELATED GEOLOGICAL EXPERIENCE

Geology Department, San Jose State University, San Jose, California, *Graduate Research Assistant*: January 1986 to June 1986

Kaiser Sand and Gravel Company, Mountain View, California, *Laboratory Manager*: November, 1984 to June, 1985

Department of Geological Science, University of Southern California, *Research Assistant*: June 1978 to August 1979

PROFESSIONAL & COLLEGE SERVICE

Member of Education Advisory Committee for the National Science Foundation's MARGINS Successor Project, Fall 2009.

National Steering Committee Digital Library for Earth System Education, 1999 to 2004. Chair of the Steering Committee 2003 and 2004.

Assembly National Digital Science Library, 2000 – 2004.

College Curriculum Committee, Spring Term 1999, Spring Term 2001, 2001-2002, 2002-2003 academic years and Fall Term 2004.

Co-convener National Science Foundation Conference (at NSF Headquarters) on the *Critical Role of Two-Year Colleges in Geoscience Education*, Summer 2000.

Invited delegate to the Coolfont Conference in West Virginia to establish a Digital Library for the Geosciences, Summer 1999.

Academic Senate, Senator representing the Division of Physical Sciences, Mathematics and Engineering, 1994-1995 academic year and 2006-2007 academic year.

Tenure Review Due Processes Officer for Foothill College (appointed by the Executive Council of the Faculty Association) 1993 through 1996.

College Technology Committee, 1993- 1994, 1994- 1995 academic years.

Hiring Committees for Both Foothill and De Anza College for tenure-track positions in Astronomy (Foothill), Geology (De Anza), Geography / GIS (De Anza and Foothill), Dean of Physical Sciences Mathematics and Engineering (Foothill), Physics (Foothill).

Tenure Review Committees for Both Foothill and De Anza Colleges in Astronomy (Foothill, Chair), Biology (Foothill), and Geology (De Anza).

PROFESSIONAL MEMBERSHIPS

Geological Society of America

Affiliations: Structural Geology and Tectonics Division
Geoscience Education Division
Planetary Geology Division

American Geophysical Union

Affiliations: Tectonophysics Section
National Association of Geoscience Teachers

HONORS AND AWARDS

Elected Chair, National Steering Committee of the Digital Library for Earth System Education (DLESE), 2003 through 2004.

Elected to the National Steering Committee of the Digital Library for Earth System Education (DLESE), 1999 through 2003.

Nominated for the Geological Society of America's "Biggs Award for Excellence in Earth Science Teaching" for 1994.

Recipient of Award for Innovation in Teaching by the Academic Senate of Foothill College, June 1994.

Awarded Graduate Research Assistantship, San Jose State University, Spring semester 1986.

Awarded Grant in Aid of Research by Sigma Xi (National), in support of thesis project, July 1985.

Recipient of Award for Outstanding Original Research as an undergraduate by Sigma Xi (Southern California Chapter), May, 1978.

RECENT COLLABORATORS

J. Casey Moore, Ph.D. *University of California, Santa Cruz*

Kim Kastens, Ph.D. *Lamont Doherty Earth Observatory*

Sharon Tahirkheli *American Geologic Institute*

Barb deFelice, *Dartmouth College*

Heather McDonald, Ph.D. *Colege of William & Mary*

Steve Semken, Ph.D. *Arizona State University*

Susan Nissen, Ph.D. *Kansas Geological Survey*

Nathan Bangs, Ph.D. *University of Texas*

RECENT GRANTS

NSF: Awd. No. 0226289 \$106,067.00

Collaborative Project: To Gather, Document, Filter and Assess the Broad and Deep Collection of the Digital Library for Earth System Education

Collaborative with Lamont Doherty Earth Observatory of Columbia University, Dartmouth College and the American Geologic Institute. Total award approx. \$800,000.00

NSF: Awd. No. 0085831 \$143,093.00

Collaborative Project: To Enhance the Depth, Breadth, and Quality of the Collections of the Digital Library for Earth System Education (DLESE)

Collaborative with Lamont Doherty Earth Observatory of Columbia University, Dartmouth College and the American Geologic Institute. Total award approx. \$850,000.00