

Stephen F. Cunha

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EDUCATION

- 1994 Ph.D. in Geography, UC Davis: Biosphere Reserve Analysis, Pamir Mountains; Dr. Jack D. Ives
1985 MA in Geography, UC Davis: Tree ring/Climate Analysis, Yosemite; Dr. Deborah L. Elliott-Fisk
1977 BS in Conservation & Resource Science; BA in Geography, UC Berkeley

ACADEMIC AND PROFESSIONAL EXPERIENCE

- 2000-18 Professor of Geography, Humboldt State University, Arcata (Chair 2010-14; Associate 1996-20000)
2012-14 Initiating Environmental Studies Program Coordinator, Humboldt State University
2011 Visiting Professor, Universidad Tecnológica Equinoccial, Quito, Ecuador
2000-11 Director, California Geographic Alliance
1986-96 Earth Sciences Chair and Instructor of Geography, Cosumnes River College, Sacramento
1987-88 American Studies Coordinator, Stamford College, Kuala Lumpur, Malaysia
1978-86 National Park Ranger (Seasonal/Career Conditional), Yosemite, Glacier Bay, Wrangell-St. Elias
1984-85 Research Assistant (Dendrochronology) and Teaching Assistant (Ecology), UC Davis
1980-82 Biology and Earth Sciences Instructor and Department Head, Polytechnic High School, Pasadena
1978-80 Middle School Science Teacher, Polytechnic School, Pasadena
1977-78 Environmental Education Founding Instructor, Yosemite Institute, Marin Headlands Campus

SELECTED CONSULTING

- 2014-pr. National Geographic Expeditions Expert: Yosemite, Around-the-World by Private Jet (2 routes), Greenland & the Canadian High Arctic
2017 Myanmar Ministry of Education/University of Yangon: Curriculum Leader for Geography and History National Curriculum Updates for Middle and High School levels
2009 Abu Dhabi University, United Arab Emirates: Establishing an Environmental Science Degree Program
2008-13 Glencoe-Macmillan/McGraw-Hill: Geography Consultant for all K-12 Publications
2004-10 California Department of Education: Environment & Education Standards for Grades K-12
2008 National Park Service and National Geog. Soc., Curriculum Consultant/Author for Grades 4-12 BioBlitz
2006 National Geographic Society: *Collegiate World Atlas*, Geomorphology Text and Map Consultant
2004 Ethnic Law and Minority Centre, London (UK): Asylum Law Project, Tajikistan
2003 O'Melveny & Myers LLP: Terrain analysis and Land Use History, Myanmar
2003 National Geographic Society: World Regions & World Cultures Book Series, Content Consultant
2000-pr. Tajik Socio-Ecological Union for Nature: Consultant, Tajikistan biodiversity and park issues
1997-02 Focus Humanitarian Assistance USA: Eastern Tajikistan Social and Geomorphic Hazards
1995-02 World Conservation Union (IUCN): Commission on National Parks & Protected Areas
1994 USAID: Biodiversity Specialist and Co-author, Environmental Action Plan for Central Asian States
1993 World Bank: Consultant, Environmental Status Report for Tajikistan
1992 World Conservation Union (IUCN): Glacier Bay Biosphere Reserve Task Force
1991 World Conservation Union (IUCN): Consultant, *Guidelines for Mountain Protected Areas*
1988 Malaysian-American Cooperative Education Consortium: Pacific Rim Performance Task Force

PUBLICATIONS

- 2017 *Perestroika* to Parkland: The Evolution of Land Protection in the Pamir Mountains of Tajikistan. *Annals of the American Association of Geographers* 107:2.
2017 The Unique Human-Environmental Geography of the Pamir Mountains. *APCG Yearbook* 78.
2017 Christopherson, R., S. Cunha, and C. Thompson. *Geosystems Core*. Boston. Pearson Higher Education.
2016 Phase Change: The Western Ski Industry in Transition. *Pacifica*: Spring 2016.
2013 Cunha, S., and L. Price. Agriculture, Pastoralism, and Forestry. In: Price, M., A. Byers, D. Friend, and L. Price (eds.). *Mountain Geography: Physical and Human Dimensions*. Berkeley. UC Press.
2012 Parks and Nature Conservancy. In: Stoltman, J. P. (ed.). *Geography for the 21st Century*. Los Angeles. Sage.
2012 *How to Ace the National Geographic Bee (4th Ed)*. Washington, D. C. National Geographic Society.

- 2010 Cunha, S. (Author), and M. B. Cunha (Cartography Team Director). *California: A Changing State. An Atlas for California Students*. A publication of the California Geographic Alliance.
- 2010 A Thousand Worlds. *Humboldt: The Magazine of Humboldt State University*: Spring 2010.
- 2009 *Encyclopedia of Asia (5 vols.)*. Great Barrington (MA). Berkshire Publishing. Entries for: Three Gorges Dam, Tarim Basin, Tian Shan.
- 2008 The Past 20 Years at Glacier Bay, Alaska. *Geographische Rundschau International Edition* 4:1.
- 2008 Afghanistan to Zimbabwe: What to Expect When You're Expected to Teach Geography. *Social Studies Review* 47:2.
- 2007 The Badakshani of the Eastern Pamir. In: Brower, B., and B. R. Johnston (eds.). *Disappearing Peoples? Indigenous Groups and Ethnic Minorities in South and Central Asia*. Oxford (UK), Berg Publishers.
- 2007 Cunha, S., and Namov, A. *How to Prepare for the National Geographic Olympiad: With Materials from the National Geographic Society and Russian Geography Olympiad* (in Russian). Moscow. ACT Press.
- 2007 Banks, J., K. Colleary, S. Cunha, J. Echevarria, W. Parker, J. Rawls, R. Salinas, and E. Schell. *California Vistas: History-Social Studies for Grades K-6 (7 vols.)*. New York. Macmillan/McGraw-Hill.
- 2005 *National Geographic Bee Official Study Guide, 2nd ed.* Washington, D. C. National Geographic Society.
- 2005 The Mountain Tajiks: Central Asia's Forgotten Tribe. In: Burszta, W. J., T. Kamusella, and S. Wojciechowski (eds.). *Nationalisms Across the Globe: An Overview of Nationalisms in State-Endowed and Stateless Nations, Volume II*. Instytut Slawistyki (Slavic Institute, Polish Academy of Sci.). Warsaw.
- 2004 Bockenbauer, M., and S. Cunha. *Our Fifty States*. Washington, D. C. National Geographic Society.
- 2004 Allah's Mountains: Establishing a National Park in the Central Asian Pamir. In: Warf, B., D. Jannelle, and K. Hansen (eds.): *WorldMinds: Geographical Perspectives on 100 Problems*. New York, Kluwer.
- 2003 Tajikistan and Alaska. In: Page, M. (ed.). *Encyclopedia of Colonialism*. New York. East River Books.
- 2003 To Bee or Not to Bee: Integrating the National Geographic Bee into the Middle School Curriculum. *Social Studies Review* 42:2.
- 2003 Cunha, S. F., and E. Schell. Instilling a Passion for Geography. *Social Studies Review* 42:2.
- 2002 *Encyclopedia of Modern Asia*. New York: Scribner's Reference. Entries for: Pamir Mountains, Sarez Lake, Khorog, Snow Leopard, Marco Polo Sheep, Altai Mountains, Badakshan, Dushanbe, Karakoram Mountains, Khunjerab Pass, Pamiri People, Tarim Basin, Tien Shan, and Trans-Alay.
- 2002 *National Geographic Bee Official Study Guide*. Washington, D. C. National Geographic Society.
- 2002 The Status of Geography Education in California. *International Research in Geographical and Environmental Education* 11:2.
- 2002 Lesotho: A Development Challenge in South Africa's Mountain Rimland. In: Pendergast, S., and T. Pendergast (eds.). *National Economies*. Farmington Hills (MI). Gale.
- 2001 Bearing Fruit: The Importance of Geography Education in the Early Grades. *Social Studies Review* 41:1.
- 2000 Making a World of Difference: Teaching Methods in Cultural Geography. In: Brophy, J. (ed.). *Subject-Specific Instructional Methods and Activities, Vol. 8*. London. Elsevier Science.
- 1999 Alford, D., S. Cunha, and J. Ives. Mountain Hazards and Development Assistance: Lake Sarez, Pamir Mountains, Tajikistan. *Mountain Research & Development*. 20:1
- 1999 Kostka, E., Kaufmann, V., Kraemer, W, Cunha M., and Cunha S. *Panorama Glacier Point View 7,214ft / 2,199m, Yosemite National Park, California* (Map). Vienna. Cartoconsult.
- 1998 Using Material Culture to Impart a Sense of Place. *Education About Asia* 3:3.
- 1998 The Missing Element in School Reform. *California Geographical Society Bulletin* 53:1.
- 1998 Maps, Remote Sensing and Natural Hazards in the Eastern Pamir, Tajikistan. *Proceedings, 5th International Symposium on Remote Sensing Cartography*. (1998). Arcata, California.
- 1998 A Milestone Decision for Yosemite. *California Geographical Society Bulletin* 52:1.
- 1997 Summits, Snow Leopards, Farmers, and Fighters: Will Politics Prevent a National Park in the High Pamir of Tajikistan? *American Geographical Society Focus* 66:1.
- 1997 The Hunting of Rare and Endangered Fauna in the Mountains of Central Asia. *Proceedings: 8th International Snow Leopard Symposium* (1995). Islamabad, Pakistan.
- 1995 The Status of the Kirghiz Settlements on the Pamir Plateau, Eastern Tajikistan. *Kazakh & Kirghiz Studies Bulletin* 2:1. Univ. Washington.

- 1994 Tajik Civil War Threatens National Park in the High Pamir. *Institute of Soviet-American Relations Quarterly* (ISAR): 12:4. Washington, D.C.
- 1994 Eastern Pamir and the Pamir Plateau. In: F. Maier. *Trekking in Russia & Central Asia: A Travelers Guide*. Seattle. The Mountaineers.
- 1993 An Action Plan for the Proposed National Park in the High Pamir, Tajikistan. In: L. Hamilton (ed.). *Parks, Peaks and People*. Honolulu. East-West Center.
- 1992 *Invasion of Tuolumne Meadows by Pinus murrayana, Yosemite National Park, California*. Final Report on Cooperative Research with the National Park Service, Technical Report No. 45. NPS. Oakland, CA.

BOOK REVIEWS

- 2015 The Future of Mountain Agriculture. Mann (2013): Heidelberg. Springer.
Mountain Research & Development 35:2.
- 2003 Mountain Environments. Parish, R. (2002): London. Prentice Hall.
Mountain Research & Development 22:2.
- 2001 Exploring the Highest Sierra. Moore, R. (2000): Palo Alto. Stanford University Press.
California Geographer 40.
- 2000 National Parks & Our Search for Sustainability. O'Brien, B. (1999): Austin. U. Texas Press.
Professional Geographer 53:2.
- 1999 Sierra Nevada: The Naturalists Companion. Johnson, V. R. (1998): Berkeley, UC Press.
Mountain Research & Development 19:2.
- 1999 Glaciers of California. Guyton, B. (1998): Berkeley, UC Press.
Mountain Research & Development 19:2.
- 1988 Sierra Crossing: First Roads to California. Howard, T. (1998): Berkeley, UC Press.
Mountain Research & Development 19:2.

CONTRIBUTING AUTHOR

- 2007 *Focus on Science* (three volumes for grades 4-6). New York. McGraw-Hill Glencoe.
Chapters on weathering and erosion, climate and weather, soils and vegetation, and climate change.
- 2006 *World History Series* (four volumes for grades 9– 12). Columbus (OH). Glencoe/McGraw-Hill.
Authored Geography Reference Sections and contributed sections on land use history, environment, and geography of Central Asia, Southeast Asia, Alaska, American Southwest, West, and Sierra Nevada.

SELECTED LIMITED DISTRIBUTION REPORTS

- 2016 Exiting the Souk: Revising the APCG Student Awards. *Pacifica* Fall 2016.
- 2011 Evaluating ENVS Student/Faculty Exchanges between Abu Dhabi University & Humboldt State
- 2004 California Geographic Alliance Strategic Plan (revised bi-annually)
- 2002 *Large Format Thematic Maps in K-16 Education*. National Geographic Society.
- 1998 *Population Distribution and Geographic Implications of the Sarez Lake Earthflow Dam: Implications for Hazard Mitigation*. Report to International Programs Consortium, Washington, D. C. 64 pp., 2 maps, 4 figs. Study contracted by the World Bank (Zurich, Switzerland) and USAID (Washington, D. C.).
- 1997 *Causative Factors Behind the Disproportionate Number of CSU over UC Graduates on California Community College Faculty*. Report to CSU Cornerstones Task Force.
- 1995 Guidelines for Selecting Peace Corps Protected Area Specialists in Central Asia.
U.S. Peace Corps, Almaty, Kazakhstan. 11 pp., 1 map.
- 1994 *Environmental Action Plan for the New Independent Central Asian States* (Co-author).
U.S. Agency for International Development, Washington, D.C.
- 1992 *The Proposed Glacier Bay Biosphere Reserve: Obtaining Long Term Environmental Stability*.
World Conservation Union (IUCN). Gland. Switzerland. 32 pp., 2 maps.
- 1991 *Stamford-Cosumnes River College American Studies Program: Review & Recommendations*. 34 pp.
- 1988 *Stamford-Cosumnes River College American Degree Studies Program: Policies and Procedures Manual*.
Kuala Lumpur, Malaysia. 35 pp.
- 1986 *Distribution of Mine Claims, Summer Cabins and Homesteads in the Chitina River Corridor, Wrangell-St. Elias National Park & Preserve. Report to Superintendent*. Glennallen. 24 pp., 3 maps.
- 1985 *Recreation in the Malaspina Forelands, Icy Bay and Tatshenshini-Alsek Corridor: Prospects and Problems. Report to Alaska Regional Office*. 26 pp., 6 photographs, 4 maps.

GRANTS 3.1 million dollars from the National Geographic Society, S.D. Bechtel, Jr. Foundation, Richard and Rhoda Goldman Fund, Eli and Edythe Broad Foundation, David & Lucile Packard Foundation, Univ. of California, California Dept. of Education, U.S. Dept. of Education., and the National Park Service

RECENT PEER REVIEWS

<i>Natural Hazards</i>	Submission on Exposure to Extreme Cold in the Zeravshan Valley, Tajikistan
<i>Human Ecology</i>	Submissions on the Afghan and Tajik Pamir
<i>Educational Research</i>	Submission on high school student metaphors about flooding
National Science Foundation	Proposals on the Himalaya and Central Asia
<i>Madroño</i>	Submissions on the Rocky Mountains
<i>Geographical Review</i>	Submissions on Central Asia, Sierra Nevada, and Geography Education
<i>Professional Geographer</i>	Submissions on Central Asia, Alaska, and Papua New Guinea
<i>California Geographer</i>	Submissions on Sierra Nevada and Geography Education

COURSE OFFERINGS

Intro to Cultural Geography	Mountain Geography	Geomorphology
Intro to Physical Geography	Geography of Asia	National Parks & Protected Areas
International Environmental Issues	Senior Field Research	Graduate Seminar: Central Asia

FINE ARTS

Theater	Baron Alexander Von Humboldt (elder) in: <i>Humboldt Unbound</i> . Celebrating 100 Years of Humboldt State University; 7 performances (2013-14)
Exhibit	Geography <i>First</i> Generation Project: A Centennial Exhibit portraying students-staff-faculty-alumni who are the <i>First</i> in their family to graduate from college; displayed in Founders Hall and online (2013-15)
Television	Amazing Kids (Pilot Production): L.L. J. Cool Productions, Hollywood (2013) Huell Howser Productions: <i>Five Corners of California</i> (5 programs; 1999-03)

HONORS

2017	University Medal, Outstanding Professor, Humboldt State University Academic Senate
2009	University Medal, Scholar of the Year, Humboldt State University Academic Senate
2007	Wang Family Excellence Award in Social & Behavioral Sciences and Public Service, California State University Trustees (\$20,000 prize)
2007	Hilda Taba Award for Outstanding & Enduring Contributions to Social Science Education, California Council for Social Studies
2002	Professional Service Award, California Geographical Society,
2001	Distinguished Teaching Award, National Council for Geographic Education
1998	Innovation Award & Grant, HSU College of Arts, Humanities, & Social Sciences
1996	Distinguished Cable Educator Award, Sacramento Cable Educational Consortium
1995	Outstanding Teacher-Scholar, Association of American Geographers (<i>AAG Newsletter</i> 30:6)
1994	Outstanding Faculty, Vector Marketing Corp (<i>Chron. High. Ed.</i> XL:25)
1994	Faculty Lecturer, Cosumnes River College
1993	Educator of the Year, California Geographical Society
1991-93	Grantee, United Nations University Environment Program
1991	Outstanding Faculty, Cosumnes River College
1985	Incentive Award, National Park Service, Western Region
1973-77	University of California, Berkeley Athletic Scholarship, Intercollegiate Swimming: Competed in Pac-10, NCAA Division I, and National AAU Finals (200 m butterfly, 1500 m freestyle)

SELECTED PROFESSIONAL SERVICE

2015-16	Association of Pacific Coast Geographers, President (Elected Vice-President 2014-15)
2014	Association of Pacific Coast Geographers, Judge, Student Paper Awards
2010-13	Association of American Geographers, Committee on Higher Education
2010	University of Hawaii, Hilo, Department of Geography Program Review
2009	National Geographic World Geography Championship Official, Mexico City
2008-09	National Geographic Society Geography Alliance, National Review Committee
2008	CSU Chancellor's Office Wang Family Excellence Award Selection Committee

2007-08 HSU Environmental Science Restructuring Committee
 2007-14 Association of Pacific Coast Geographers Margaret Trussell Scholarship Committee
 2006 National Council for Geographic Education, Annual Meeting Co-Chair, Lake Tahoe
 2004 Arcata School District, Restructuring Task Force
 2000 Chair, Merit Salary Appeals Committee
 2000 Association of Pacific Coast Geographers, Annual Meeting Coordinator
 1998 5th International High Mountain Remote Sensing Cartography Symposium, Coordinator
 1997-99 California Geographical Society, President (Vice President, 1995-95)
 1989-13 National Geographic Society, State Bee State Coordinator
 1997-98 Sunset Elementary School, Site Council President
 1995-97 Association of American Geographers, Geography Education Specialty Group, Board
 1991-94 UC Davis, Teaching Resources Center, Mentor Instructor, Certificate in College Teaching
 1990-96 Los Rios Community College District, Minority Program Mentor Instructor
 1989 California Geographical Society, 43rd Annual Meeting Chair, Cosumnes River College
 1985-90 National Registry & State of Alaska, Emergency Medical Technician

CURRICULUM DEVELOPMENT & REVISION

Environmental Studies (2011), Environmental Science (2008), Geography (2002), assist Liberal Studies/
 Elementary Education (1990s); and community college, high school/middle school (Science / Social Science)

SELECTED PROFESSIONAL PRESENTATIONS

2016 Association of Pacific Coast Geographers, Portland (OR)
 PRESIDENTIAL ADDRESS *Perestroika* to Parkland: Evolving Land Protection in the Tajik Pamir
 2016 National Geographic Expeditions Special Presentation, Lhasa, Tibet
 Protecting Mountain Environments in Central Asia
 2016 Association of American Geographers, San Francisco
Perestroika to Parkland: Evolving Land Protection in the Pamir Mountains of Tajikistan
 2015 National Geographic Society Special Presentation, Yosemite Valley
 1) Yosemite and the National Park Service Centennial
 2) John Muir in the Range of Light and Alaska
 2015 69th California Geographical Society Annual Conference
 A Land Apart: The Sierra Nevada
 2014 TED^X Humboldt Bay
 High Priority: Protecting Mountain Environments
 2013 Association of Pacific Coast Geographers, Squaw Valley (CA)
 The Uniqueness of the Sierra Nevada
 2013 Humboldt State University Centennial Commencement Address
 Finding the Harmony in Nature (first-person as Baron Alexander Von Humboldt)
 2013 UC Davis Geography Graduate Group
 Mapping Careers in Geography (with Mary Beth Cunha)
 2012 American Association of University Women
 Geography: A World of Connections
 2009 Humboldt State University Scholar of the Year Lecture
 High Priority: Conserving Mountain Environments from Alaska to Zambia
 2008 California Curriculum Commission
 Invited Testimony: Geography's Place in the K-12 History-Social Studies Framework
 2008 Global International Education Summit, CSU Fullerton
 Invited Plenary Speaker: Geography is Destiny, the Rest is History
 2008 Association of American Geographers, Boston
 Session Chair and Presenter: Two Decades of Progress and Peril in the Pamir Mountains
 2008 Curriculum and Instruction Leadership Symposium, Asilomar
 Invited Special Session: Using Geography to Raise Core Curriculum Off the Map
 2008 California Council for Social Studies, Oakland
 Invited Scholar Presentation: Landscape Change in Glacier Bay, Alaska
 2008 Michigan State University, Center for Asian Studies
 Invited Colloquium Speaker: The Pamir Mountains and the American War on Terror

- 2005 National Geographic Society, Washington, D. C.
Presentation to the NGS Board of Directors: Geography and the Alliance Network
- 2005 National Center for History in the Schools
Environmental History and Geography of the Sierra Nevada
- 2005 Association of American Geographers, Denver (CO)
Paper: Flat Nothingness: How the Government Portrays Drilling in ANWR
- 2000 34th Conference on South Asia, Univ. Wisconsin, Madison
High Promise: Tourism in the Tajik Pamir and Wrangell-St. Elias, AK
- 1998 5th International High Mountain Remote Sensing Cartography Symposium, HSU
Remote Sensing & Sarez: Using High Altitude Imagery to Resolve a Mountain Hazard
- 1997 Univ. of Utah Geosciences Institute, Workshop on Natural Hazard & Risk Assessment Central Asia
Invited Paper: Lakes Sarez and Yashikul Earthflow Dams, Eastern Pamir, Tajikistan
- 1997 Academic Senate of the California State University, Monterey
Faculty Delegate: Cornerstones and The Future of Baccalaureate Study in the CSU
- 1996 California Academy of Sciences, San Francisco
Human-Environment Interaction in the Central Asian Cordillera
- 1995 The Rene Dubos Center for Human Environments, New York
Invited Panelist: Forum on Economic Growth & Environmental Quality in Central Asia

PPROFESSIONAL TRAVEL

Arabian Peninsula, China, Japan, Southeast Asia, South and Southwest Asia, Central Asia, Papua New Guinea, Eastern Europe, Russia, Western Europe and Azores Islands, Northern Africa (Jordan and Morocco), East Africa, Southern Africa, South America (Andes, Amazon, Atacama), Caribbean, North America (19°N - 76°N; Mexico City north to Alaska-Yukon), Australia, South Pacific, Easter Island, Iceland, Western Greenland (to 78°N), Norway, Mongolian Steppe

MOUNTAIN TRAVEL

Alps, Carpathians, Tatras, Himalaya, Karakoram, Hindu Kush, Kun Lun, Tian Shan, Pamir, Ta Hsueh Shan, Khingan, Hengduan Shan, Malay Cordillera, Alaska, Chugach, Fairweather, Wrangell, St. Elias, Coast Mountains (BC), Olympic, Sierra-Cascade, Rocky Mountains, Black Hills, Appalachian, San Pedro Martir, Northern/Southern Andes, African Rift Volcanoes, Northern Karroo, Great Dividing Range, Drakensberg, Fansipan (Vietnam), Central Cordillera (Puerto Rico), Al Hajar (Oman/UAE), Petra, Atlas (Morocco)

FAMILY

Married to Mary Beth Cunha, HSU Geospatial Sciences Lecturer and Lab Manager, with three grown children



Academia Nauk in the Pamir Mountains, Tajikistan