

SCOTT WALLS, MLA.EP

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EDUCATION

Master of Landscape Architecture, Environmental Planning *University of California, Berkeley* May 2013

Thesis: *A geomorphic typology to characterize surface-groundwater interactions in the Russian River Basin*

Committee members: G. Mathias Kondolf (chair), Joe McBride, John Radke, Sally Thompson

Honors & Awards: *LAEP Departmental Award, Berkeley Circus 2012 Merit Award, Portuguese Study Program Research Award (2012, 2013), Continuing Graduate Student Fellowship, Beatrix Farrand Scholarship, Scott Traveling Fellowship*

Bachelor of Science, Hydrologic Sciences (Honors) *University of California, Santa Barbara* Jun 2006

Honors & Awards: *Phi Beta Kappa Honors Society, Departmental Honors, Dean's List, College of Letters and Science Honors Program, Golden Key International Honor Society, Dean's List, Shoreline Preservation Fund Undergraduate Scientific Diver Award.*

UC Education Abroad Program *Universidad de Chile, Santiago* Fall 2005

Completed courses in Spanish language, hydrology, civil engineering, history, and photography at the Universidad de Chile and Pontificia Universidad Católica de Chile.

SKILLSET

Natural Resources: Hydrology + Geomorphology + Fisheries + Ecology + Restoration Design + Regulatory Compliance

Geospatial: GIS + Remote Sensing + Terrain Modeling / Analysis + UAV Imagery Aquisition / Analysis + Database Mgmt.

Creative Design: Carto/Graphic Design + Data Visualization + Web Design / Development + Photography + Illustration

PROFESSIONAL & RESEARCH EXPERIENCE

Owner. *walls land+water, LLC.* Santa Cruz, CA | San Francisco, CA Jun 2008 - present

Provide support for consulting firms, non-profit organizations, government, and academia throughout the United States, Latin America, Europe, and Asia. Services include GIS & remote sensing, cartography, restoration design, field work and equipment installation, hydrologic data analysis, geomorphic / watershed assessments, and regulatory compliance. Other work included various landscape design, UAV photography and analysis, freelance photography, web design & development, and graphic design.

Project Manager / Chief Financial Officer. *International Watershed Partners (IWP).* San Francisco, CA Dec 2012 - present

IWP is a startup NGO that promotes healthy watersheds by facilitating collaborative projects between professionals, graduate students, and disadvantaged communities. Responsibilities include project management, managing budgets and fundraising, public outreach, technical assistance, and Spanish language translation. Project locations include Ecuador, Cuba, and Nicaragua.

Ecohydrologist. *cbec ecoengineering, inc.* West Sacramento, CA. Nov 2013 - Present

Involved in several projects using GIS for water resources planning which included using an array of spatial datasets and stakeholder input to prioritize mitigation sites and develop conceptual designs in the Sacramento area (SAFCA/FloodProtect and Jflow). Worked with Western Placer County to develop low-impact development (LID) manual.

GIS Specialist. *Deer Creek Resources.* Chico, CA. May 2013 - Oct 2013

Provided emergency response incident mapping, mobile network management, computer hardware, mechanical /electrical support, and system administration for wildfires and other natural disasters in the western US.

Graduate Student Researcher. *California Land Stewardship Institute.* Napa, CA Jan 2012 - May 2013

Provided assistance to the California Land Stewardship with data collection and organization of the Russian River Independent Science Review Panel (ISRP). Research included stream gage installation, flow monitoring, data analysis and rating curve development, and development of a conceptual model of surface-groundwater interactions in the Russian River basin.

Staff Scientist. *Waterways Consulting, Inc.* Santa Cruz, CA Nov 2009 - Jun 2011

Worked closely with engineers and scientists to assist clients in all phases of planning, design, permitting and construction for a variety of projects. These projects include restoration design, fish passage improvements, watershed assessments, hydrological/hydraulic analyses, and regulatory compliance. Responsibilities included GIS analysis/CAD design, watershed analyses, hydrologic data collection and analysis, visualization and cartography, restoration design, report writing and production, project management, regulatory document preparation and field work.

EXPERIENCE CONT.

Staff Scientist. *Swanson Hydrology + Geomorphology.* Santa Cruz, CA Jun 2007 - Jun 2009

Supported an interdisciplinary team of engineers and scientists through all phases of various stream and wetland restoration projects, watershed assessments, and regulatory compliance through California, Nevada, and Oregon.

Research Assistant. *University of Hawaii.* Bocas Del Toro, Panama Jun 2006 - Apr 2007

Assisted a NSF-sponsored long-term coral reef biology project at the Smithsonian Tropical Research Institute in Bocas del Toro, Panama. Duties included field work on SCUBA and snorkel, experimental design, laboratory and wetlab, data processing, GIS, outreach, educational presentations, and small boat operation. Advisor: Dr. David Carlon

Undergraduate Researcher. *University of California, Santa Barbara / Universidad de Chile* 2002 - 2006

Completed a series of independent research projects in water quality, GIS & remote sensing, geomorphology, marine geochemistry, and fish ecology during undergraduate career.

TEACHING

Graduate Student Instructor. *University of California, Berkeley* Fall 2011

Landscape Arch/Geography 188C, Geographic Information Systems
Professor John Radke

Instructed nearly 100 undergraduate and graduate students on the conceptual and applied / technical applications of GIS and remote sensing. Instruction included data acquisition, management, and analysis, cartographic design, networking, troubleshooting, etc. Primary software application taught was ArcGIS Desktop.

TECHNICAL

Software: ArcGIS Desktop, QGIS, AutoCAD Civil 3D, HEC hydrological software, ENVI, ERDAS Imagine, MATLAB, Microimages TNTmips, Microsoft Office, Adobe Creative Suite (Photoshop, Illustrator, InDesign, Dreamweaver), Google Sketchup, Tableau Desktop, Agisoft Photoscan, Pix 4D

Computer Languages: Python, SQL, HTML/CSS

Field: Topographic survey (rod & level, total station, RTK GPS), geomorphic/habitat assessments, stream gage and staff plate installation, flow measurement, sediment sampling, biological monitoring, vegetation identification and mapping.

Regulatory Compliance: CEQA/NEPA, RWQCB 401, USACE 404, CDFW 1602 Permits

PUBLICATIONS

Kondolf GM, Walls SP, Stella JC, Rodriguez-Gonzalez P. 2013. *Change in riparian habitat downstream of reservoirs in the Sado River Basin, Portugal* (submitted, Hydrobiologia)

Stella JC, Kondolf GM, Rodríguez-González P, Anderson C, Albuquerque A, Walls SP, Teresa Ferreira M. 2015. *Riparian vegetation response to severe flow regulation in Mediterranean-climate rivers* (in progress, Hydrobiologia)

Kondolf GM, Minear JT, Walls SP. 2013. *Gravel Augmentation to Improve Salmonid Habitat in Rivers: General Geomorphic Considerations and Experiences from Northern California* 2015 (in progress, San Francisco Estuary and Watershed Science)

PRESENTATIONS

Historical Ecology of the Russian River. Incised Channel Workshop. Napa, CA. September 2013.

Restoring Connectivity and Process in Urban Coastal Streams, Ribeira da Laje at Oeiras. Lisbon, Portugal. June 2012.

The Evolution of the Wildbird Tidal Mudflat Design in Fukuoka, Japan. Southwest National Scenic Area Conference. Tainan, Taiwan. May 2012.

Post-project performance of a multi-phase urban stream restoration project. 2012 Berkeley River Restoration Symposium. December 2012.

Tidal Influence: Tidal Marsh Restoration Plan for Walnut Creek. 2012 UC Berkeley CED Circus. April 2012

OTHER

Languages: Proficient in Spanish

Interests: Photography, UAV, water, travel, camping, dogs, maps, creative design, watercolor, surfing, diving

References: Available upon request