

PATRICK HUBER, PH.D

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SUMMARY OF QUALIFICATIONS

- Conservation and stewardship professional with a strong background in program development, project management, and data analysis.
- Well respected and trusted advisor recognized by leaders in industry, academia, elected office, and the general public as an honest broker with the highest levels of integrity.
- Deep knowledge of the challenges and issues across a broad range of natural resources topics impacting California, with experience spearheading complex, multi-agency, projects across the state.
- Served as lead or co-author on 24 peer-reviewed publications and presented at many conferences, workshops, and invited lectures to colleagues, elected officials, decision-makers, and the general public.
- A dedicated advocate for the integration of scientific partnership in government policy making and committed to evidence-based decision making.
- Well developed oral, written, and interpersonal skills to convene and facilitate groups with diverse perspectives and competing priorities; diplomatic and politically astute without being political.

WORK EXPERIENCE

Founder/Director, Center for Conservation Informatics, UC Davis	Feb 2023-Dec 2026
Scientific Researcher, Dept. of Env. Sci. and Policy/Ag. Sustain. Inst., UC Davis	Jan 2002-Feb 2023
▪ Project Scientist, Jan 2010-Feb 2023 ▪ Postdoctoral Scholar, Jan 2009-Dec 2009 ▪ Graduate Research/Teaching Assistant, Oct 2001-Dec 2008	
Field Crew Leader, U.S. Forest Service, Sacramento, CA	July-Sept 2004
Conservation Scientist, South Coast Wildlands, Thousand Oaks, CA	Jan 2009-Dec 2009

SIGNIFICANT PROJECTS

Project Lead/Leadership Committee	Nov 2021-Dec 2024
AI Institute-ICICLE: Intelligent Cyberinfrastructure with Computational Learning in the Environment	
▪ NSF-funded institute (comprised of 14 universities) to develop artificial intelligence tools and cyberinfrastructure for decision support in land use planning. ▪ Led a team of ~20 domain and computer scientists. ▪ This project established a linked domain science/computer science team to develop future AI/CI in support of conservation use cases. Back-end methods, tools, and infrastructure were developed. The concept of a global, interoperational Internet of Conservation was launched and outreach was begun.	
Principal Investigator/Researcher	Apr 2011-July 2025
Regional Conservation Assessments	
▪ GIS geospatial analyses and Marxan reserve selection software. ▪ Integrated multiple conservation objectives across landscapes. ▪ Project regions included: South Sacramento County, California desert, Sacramento region, southern California SCAG, California salmonid rivers, San Joaquin Valley RCIS, Sequoia-Kings Canyon National Park. ▪ Partners/Funders: SACOG, Strategic Growth Council, U.S. EPA, The Nature Conservancy, CA Dept. of Water Resources, National Park Service, River Partners, Conservation Biology Institute, Amer. Land Conservancy. ▪ Spatially-explicit, multi-objective, multi-scenario conservation assessments were developed as decision-support tools for managers in regions across California.	

Principal Investigator/Researcher**Jan 2011-Jun 2025****Assessing Sustainability Characteristics of Commodity Crops**

- Used informatics tools to track and assess the sustainability of agricultural commodities within working landscapes.
- Topics: Ecuador bananas, California meat, state and national meat supply chain, Smart Foodsheds.
- Partners/Funders: Mars Corp., AGROBAN (Ecuador), USDA, NSF, American Sustainable Business Network.
- A multi-dimensional sustainability benchmark assessment was developed for the world's largest banana export sector in Ecuador. Supply chains were enhanced for regenerative, grassfed grazing operations in California's working landscapes. Commitment from the University of California to purchase meat from these supply chains.

Researcher**Oct 2008-Current****Regional Advance Mitigation Planning**

- Participated from beginning stages in the development of a statewide framework and regional use cases to implement regional advance mitigation planning (RAMP). This ultimately resulted in the RCIS/RCA program established by AB 2087.
- Regional use cases: Statewide RAMP program, Bay Area RAMP, Bay Area Mitigation Wizard.
- Partners/Funders: The Nature Conservancy, Resources Law Group, Caltrans, Metropolitan Transportation Commission, GreenInfo Network.
- This work on RAMP methodologies helped enable the establishment of the RCIS/RCA program as codified in legislation AB 2087. Subsequent work as part of the Bay Area RAMP working group is ongoing and leading to multiple implementation efforts.

Researcher**Mar 2005-Current****Wildlife Connectivity and Conservation Assessments**

- Led connectivity modeling efforts, incorporating GPS collar and roadkill data.
- Projects: Wildlife Corridor Working Group, tule elk reintroduction to SJV, mountain lion habitat and connectivity in southern California, Central Coast connectivity, Safe Passages (SJV), corridors and climate refugia review, climate change and connectivity curriculum, plant palette selection tool, U.S. Hwy. 101.
- Partners/Funders: Rocky Mountain Elk Foundation, Toll Roads, Caltrans D5, CA Dept. of Fish and Wildlife, U.S. Fish and Wildlife Service, Point Blue.
- In two decades, moved from conceptual modeling stage to implementation and incorporation in standard planning processes. Specific examples of implementation based on research project outputs include mitigation by High Speed Rail, wildlife fencing in Orange and San Luis Obispo counties, and wildlife crossings currently being constructed in the Central Coast region.

COMMUNITY LEADERSHIP & SERVICE

- Member and current Chair, City of Davis Open Space and Habitat Commission, June 2010-Current
- City of Davis Representative, Lower Putah Creek Coordinating Committee, April 2014-Current

EDUCATION**Ph.D., Geography, UC Davis****M.A., Geography, UC Davis****B.A., Philosophy, University of Chicago**