

# Kristen T. Honey

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## EDUCATION

### **Stanford University**

**Stanford, CA**

Ph.D. in Emmett Interdisciplinary Program in Environment & Resources (E-IPER), expected conferral September 2012  
“Aligning Complex, Adaptive Systems Theory & Data-Limited Assessment Strategies for Improved Fisheries Management”  
with Ph.D. Minor in Civil and Environmental Engineering (CEE Advisor: Stephen Monismith)  
E-IPER Ph.D. Depth Areas: Ecology & Evolutionary Biology, Natural Resource Economics  
Primary Advisors: Fiorenza Micheli, Roz Naylor

### **University of California, Santa Cruz**

**Santa Cruz, CA**

Master of Arts in Environmental Studies, 2005 (GPA 4.0)  
Master's Project: “Multiple-species Management of Anadromous Fish in Central California”

### **Stanford University**

**Stanford, CA**

Bachelor of Arts with Honors in Human Biology, 1997 (GPA 3.6)  
Concentration: Human Interaction with Marine and Ecological Environments  
Honors Thesis: “Introduced Mollusks in San Francisco Estuary: A Policy Proposal”

## PROFESSIONAL EXPERIENCE

### **Environmental Defense Fund (EDF), San Francisco, CA**

**2008 Lorri I. Lokey / Stanford Fellow at Environmental Defense Fund** Aug 08 – Aug 09

A one-year Lokey Fellowship, in collaboration with Dr. Rod Fujita (Senior Scientist, Director of Ocean Innovations, EDF), to develop and apply new understanding to forward effective partnerships between fishermen, environmentalists, and regulators. Evaluated market-driven conservation incentives. Identified alternative approaches and analytic innovations to overcome existing fishery challenges due to limited information and/or resource constraints. Implemented collaborative marine research and sustainable fishing partnerships.

### **John Muir Institute for the Environment, University of California, Davis, CA**

**Fish Ecologist (Student Researcher)** Mar 04 – Sept 06

Participated in mathematical modeling, laboratory research, and fieldwork efforts to understand the life history characteristics of San Francisco Estuary's delta smelt (*Hypomesus transpacificus*). Supported collaborative efforts to develop abundance estimates and facilitate analytical model development, including population viability analysis, stage-based matrix models, and resource selection functions. Laboratory work included otolith and scale investigations into the abundance of life-history variation and population dynamics.

### **San Francisco Estuary Project, Association of Bay Area Governments, Oakland, CA**

**Environmental Specialist.** Oct 02 – Oct 04

In conjunction with the California Bay-Delta Authority (CBDA, formerly CALFED) Science Program, served as lead staff support for Delta Science Panels. Projects included Bay-Delta water flow research and modeling with respect to delta smelt and salmonid populations, ecological indicators, and various global climate change scenarios. Organized, communicated, and implemented scientific reviews and workshops related to aquatic investigations. Communicated information regarding the CALFED Science Program to broad scientific audiences in various forms. Conducted background literature searches and wrote scientific reports, technical documents, management summaries, and public outreach fact sheets.

### **California Bay-Delta Authority (formerly CALFED), Science Program, Sacramento, CA**

**Scientific Project Consultant (Independent Contractor).** May 02 – Sep 02

Helped lead collaborative, multi-disciplinary efforts among 14 Member Agencies (federal, state, and local governments; university departments; non-profit and private organizations) involved in the San Francisco Bay-Delta Science Consortium (Consortium). Utilized project management skills to develop a Consortium website. Developed technology and communication avenues to facilitate interdisciplinary information exchange and to foster interagency resource and facilities sharing.

### **United States Geological Survey, Menlo Park, CA**

**Biologist.** May 02 – Sep 02

Conducted research fieldwork in San Francisco Bay-Delta to gather pelagic and benthic organisms for ecological population studies. Laboratory work included sorting and measuring samples to determine organism types and year classes. Recorded image analyzer data for further evaluation of Bay-Delta population dynamics and health.

**Student Biologist.** Dec 95 – Sep 97

Participated in research fieldwork. Collected marine specimens in San Francisco Bay. Performed laboratory research, primarily sorting and sizing benthic organisms. Designed, conducted, and analyzed an independent lab experiment on the introduced Asian clam *Potamocorbula amurensis*. Compiled and analyzed complex data to evaluate community structure and ecosystem change. Assisted with scientific presentations for educational outreach. Collaborated with graphic design artist to develop posters and visual educational aids.

**Eastern Research Group, Inc., Lexington, MA**

**Environmental Scientist.**

Sep 97 – Sep 00

Participated in collaborative team environment as scientific research consultant regarding public health/environmental issues. Managed projects including peer reviews, agency surveys, and educational curriculum development. Conducted client interviews and oral group presentations. Compiled, analyzed, and interpreted data for the U.S. Environmental Protection Agency (EPA), Centers for Disease Control and Prevention (CDC), and Agency for Toxic Substances and Disease Registry (ATSDR). Generated reports and research findings in a variety of forms, including policy recommendations, fact sheets, and education outreach.

**Environmental Defense Fund, Oakland, CA**

**Lokey Summer Intern, Oceans Program Research Assistant.**

Summer 1997

Researched and co-developed marine management policy proposals. Conducted literary reviews, attended conferences, and interviewed scientists. Conferred with staff to focus scientifically based recommendations into policy development. Drafted papers and reports. Co-authored manuscript for marine reserve decision-making.

**Hopkins Marine Station, Pacific Grove, CA**

**Ecology Student and Researcher.**

Summer 1996

Designed, conducted, and analyzed an independent lab experiment on a nocturnal snail, *Olivella biplicata*. Gathered field data through daytime and nighttime SCUBA dives. Used statistical, computer, and writing skills.

**Solo Laboratory of English, Solo (Java), Indonesia**

**English Teacher.**

Jun 94 – Jun 95

Taught English to college-level students. Designed skills-appropriate lesson plans and curriculum goals. Conducted large classes as well as individual tutorials. Collaborated with professional teaching staff.

**AWARDS**

- **Stanford Graduate Fellowship (SGF) in Science and Engineering**, recipient 2006-2010, Stanford, CA.
- **EPA STAR Graduate Fellow** recipient 2004-2006, Science To Achieve Results, US EPA, Washington, D.C.
- **STEPS Grant** recipient 2005, Science, Technology, Engineering, Policy, and Science (STEPS), UC Santa Cruz.
- **National Science Foundation (NSF) Graduate Research Fellowship Honorable Mention** recipient 2004.
- **David Gaines Memorial Award** recipient 2004, UC Santa Cruz.
- **UCSC Regents Fellow & Re-Entry Scholarship**, Marilyn Justman Memorial, recipient 2003-2004, UC Santa Cruz.
- **San Francisco Estuary Project Achievement Award** 2003, Association of Bay Area Governments, Oakland, CA.

**PROFESSIONAL PRESENTATIONS** (select presentations, comprehensive list available upon request)

- **2012 NOAA Fisheries Data-Moderate Review Workshop** at Alaska Fisheries Science Center, Seattle, WA: "From Rags to Fishes: Quantitative Comparison of Data-Poor Methods for Fisheries."
- **2011 OSU Aligning New Assessment Strategies Workshop** by OSU/Lenfest, Troutdale, OR: "From Rags to Fishes."
- **2010 The Coastal Society 22<sup>nd</sup> International Conference**, Wilmington, NC. Moderator of "Marine Habitats" TCS panel and speaker: "Adaptive Sampling for Hopkins Marine Life Observatory in California."
- **2009 Western Society of Naturalists Annual Meeting**, Monterey, CA: "Collaboration Amongst the Kelp: Providing Critical Data and Mechanistic Understanding for Marine Management."
- **2009 MBNMS Sanctuary Currents Symposium**, Monterey, CA: "How Can We Improve Marine Reserve Surveys in Dynamic Environments? Adaptive Sampling."
- **2008 Mote Fisheries Conference**, Sarasota, FL: invited key speaker for "Cooperative Strategies in Fisheries Management: Integrating Across Scales," plus poster of "Adaptive Sampling Improves Assessment of Marine Reserves for Fisheries."
- **2007 STEPS Panel on Women and Science in Engineering**, Santa Cruz, CA: "A Different Type of Life History."
- **2006 Mote Fisheries Conference**, Sarasota, FL: "A Different Type of Life History: Introducing Cultural Determinants of Success into the Biology and Ecology of California Fisheries Management."
- **2005 Bay Area Conservation Biology Symposium**, Stanford, CA: "Assessing the Population Viability of the Threatened Delta Smelt in San Francisco Estuary."
- **2004 EPA STAR Conference**, DC: "Managing San Francisco Estuary's threatened delta smelt in the face of uncertainty"
- **2004 California Estuarine Research Federation Conference**, Bodega Bay, CA: "Understanding extinction risk for the threatened delta smelt population: will the canary stop singing?"
- **2003 UC Santa Cruz**, CA: "Sacramento/San Joaquin Fulcrum of State-Wide Water Reallocation: CALFED Case Study"

**COMPUTER & FOREIGN LANGUAGE SKILLS**

- Conversant in Spanish and basic ability in Indonesian (Bahasa Indonesia).
- Excellent computer skills (PC and Macintosh experienced), including MatLab, R, Excel, HTML, and statistical software.

**ADDITIONAL INFORMATION**

- SCUBA diving certified (junior certified in 1987, advanced open water in 1992, scientific research diving status in 1996).
- Past member of Stanford University's varsity sailing team.
- Extensive professional experiences and travels within Central & South America, Asia, Africa, Australia, & Europe.