

JANET HSIAO

EDUCATION

- Master of Science, Aquatic Ecology** Winter 2016
Michigan State University, East Lansing, MI (expected)
Research Topic: Using the landscape approach to characterize inland and coastal linkages for effective conservation of aquatic habitats
- Bachelor of Science, Environmental Sciences; Music Minor** May 2013
University of California, Berkeley, CA
Thesis Title – "Renewing Urban Streams with Recycled Water: Evaluating the Effects of Tertiary Treated Effluent on Freshwater Biodiversity"

RESEARCH EXPERIENCES

- Aquatic Landscape Ecology Group, Advisor: Dr. Dana Infante** East Lansing, MI
Graduate Research Assistant 08/ 2014 – Present
- Supporting development, assembly, and management of GIS databases characterizing landscape influences on inland and coastal habitats
 - Conducting literature review on aquatic habitat linkages and ecosystem services that will become a part of a research proposal
 - Attend regular lab meetings and participate in personal development activities, including presentation training & serving as a panel speaker for an undergraduate ecology class (ZOO 355)
- NSF Urban Water Infrastructure Engineering Research Center (ERC)** Berkeley, CA
Undergraduate Researcher 08/ 2011 – 05/2013
- Studied the ecological impact of wastewater effluent using geographic information systems (ArcGIS), benthic macroinvertebrate metrics, and hydrological parameters
 - Assessed opportunities and design challenges for water reuse for streamflow augmentation and ecosystem enhancement in the context of actively managed surface waters for restoration
 - Trained in field sampling techniques, sorting methods, and identification of aquatic insects in a pilot stream flow augmentation project at Strawberry Creek, CA
- Altieri Agroecology Group** Berkeley, CA
Intern 02/ 2013 – 05/2013
- Studied flowering resource provisioning effect on populations of western grape leafhoppers and natural enemies in central California and Sonoma vineyards
 - Assisted with field collecting and monitoring of agricultural pests with various sampling methods: sticky traps, sweep nets, nymph counts, and canopy shakes
 - Supported ongoing greenhouse experiment that investigated parasitoid biological control in diversified farming system

EMPLOYMENT HISTORY

- The Trust for Public Land** Washington, D.C.
Federal Affairs Intern 06/ 2014 – 08/2014
- Attended hearings and markups related to the Land and Water Conservation Fund
 - Conducted US EPA's Brownfields Program background research
 - Assembled preliminary draft of City of Newark's grant application to secure funding through the federal Outdoor Recreation Legacy Partnership Program

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California State Water Resources Control Board

Scientific Aid

Los Angeles, CA

01/ 2014 – 06/2014

- Supported state citizen monitoring programs through technical assistance, water monitoring training, quality assurance, communication, and consultation
- Provided courteous and timely responses to internal and external partners in coordinating state bioassessment efforts; attended regional watershed forums & meetings
- Prepared scientific instructional materials, production and editing of educational training videos, digital reference collection, and biannual newsletter

Resh Laboratory of Aquatic Ecology

Student Assistant

Berkeley, CA

07/ 2012 – 05/2013

- Course reader for Biology and Geomorphology of Tropical Islands
- Statistical analysis and graphical interpretation for scientific publication preparation
- Conducted primary literature research on Antarctica, extremophiles, and the Great Lakes
- Compiled information and assembled digital media presentations

Berkeley Student Cooperative (BSC)

Elected Council Member

Berkeley, CA

05/ 2012 – 05/2013

- Supervised the president, upheld BSC policies, ensured quorum, and facilitated discussions during council meetings
- Represented a community of 259 Rochdale apartment residents within the cooperative
- Certified in first-aid, CPR, and received training in community emergency response (CERT)
- Assisted with PG&E audits that aimed to reduce energy consumption of the whole property

International Area Studies Academic Program

Department Administrative Assistant

Berkeley, CA

06/ 2010 – 08/2011

- Gained experience in large database management and customer service through reception, administrating student files, and course registration/syllabi/evaluations

Institute of Urban & Regional Development

Field and Research Assistant

San Jose, CA; Berkeley, CA

11/ 2010 – 03/2011

- Translated and conducted social science surveys to assess how flea market vendors and locales feel towards a potential public transit system that might displace them
- Mentioned in the acknowledgements of Center for Community Innovation publication in the Race, Poverty, and the Environment Journal (May 2011)

Tsutsui Lab Projects

Laboratory Assistant

Berkeley, CA

11/ 2009 – 09/2010

- Gained experience in chemical ecology through an ant behavioral project that studied the correlation between hydrocarbons and reproduction; introduced to lab methodologies including DNA extraction, PCR, Gel Electrophoresis, and mass spectrometry
- Attended insectary Argentine ants and Florida orchid bees through feeding, monitoring room humidity, keeping consistent records, and various lab maintenance errands

LANGUAGES

English (Advance), Chinese – Mandarin (Native), Taiwanese (Basic)

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PUBLICATIONS

- Moniz, P.J., P.K. Mendez, B.J. Halaburka, J.E. Lawrence, **J. Hsiao**, R.G. Luthy, and V.H. Resh. 2015. Recycled water for urban stream enhancement in Northern California: case histories of applicability and limitations of use in historically intermittent streams. Special Issue of *Freshwater Biology on Intermittent Rivers*. *In preparation*.
- Halaburka, B.J., J.E. Lawrence, H.N. Bischel, **J. Hsiao**, M.H. Plumlee, V.H. Resh, and R.G. Luthy. 2013. Economic and ecological costs and benefits of streamflow augmentation using recycled water in a California coastal stream. *Environmental Science & Technology*. DOI: 10.1021/es305011z.

PRESENTATIONS

- Burres, E., and **J. Hsiao** (2014). The Use of Web-based and Digital Tools for Developing and Supporting Citizen Monitoring Programs Conducting Bioassessments. Joint Aquatic Sciences Meeting, Portland, OR. [poster]
- Burres, E., and **J. Hsiao** (2014). The Clean Water Team and Citizen Science Activities Within California's Watersheds. Southern California Academy of Sciences Annual Meeting, Camarillo, CA. [poster]
- Hsiao, J.**, J.E. Lawrence, P. Mendez, and V. H. Resh (2013). Renewal of Urban Streams Using Recycled Water: Evaluating the Effects of Tertiary Treated Water on Freshwater Biodiversity in a Northern California Creek. Annual meeting of the Society for Freshwater Science, Jacksonville, FL. [poster]
- Halaburka, B.J., H.N. Bischel, J.E. Lawrence, **J. Hsiao**, P. Moniz, C.P.W. Pavia, E. Will, H. Oke, J.E. McCrazy, V.H. Resh, and R.G. Luthy (2013). Actively Managed Surface Waters for Stream Restoration (N2.1): Designed Urban Streams for Water Quality and Ecosystem Enhancement. Annual Meeting of the National Science Foundation Engineering Research Center for Re-Inventing the Nation's Urban Water Infrastructure (ReNUWIt). Stanford, CA. [poster]
- Hsiao, J.**, J.E. Lawrence, V. H. Resh (2013). Renewal of Urban Streams Using Recycled Water: Evaluating the Effects of Tertiary Treated Water on Freshwater Biodiversity. Annual Bay Area Conservation Biology Symposium, Davis, CA. [poster]
- Hsiao, J** (2013). Renewing Urban Streams with Recycled Water: Effects of Tertiary Treated Water on Freshwater Biodiversity. Environmental Sciences Symposium, Berkeley, CA. [talk]

SELECT AWARDS & HONORS

Society for Freshwater Science Instar Fellowship	05/ 2013 – 05/2014
Biology Scholars Program Summer Research Fellowship	05/ 2012 – 08/2012
Elks National Foundation Most Valuable Student Scholarship	2009 – 2013
George Miller Musicianship Scholarship	2009 – 2013

SERVICE & ACTIVITIES

Fisheries and Wildlife Graduate Student Organization	East Lansing, MI
Department Advisory Committee (DAC) Representative	08/ 2014 – Present
<ul style="list-style-type: none">• Represent graduate students during DAC meetings• Contribute to layout design and content editing of the Spotlight magazine publication• Intramural volleyball team	

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- MSU Student Housing Cooperative (SHC)** East Lansing, MI
Board of Directors 08/ 2014 – Present
- Central level decision-making for the self-governing democratic organization where 229 members have full ownership and control over proceeds and assets
 - Proposed a diversity initiative and modified the by-law language, which motioned to reserve certain spaces for graduate students in order to diversify the constituents in residence
- MSU Community Music School (CMS)** East Lansing, MI
Member Carillonneur 10/ 2014 – Present
- Beaumont Tower carillon
- Society for Freshwater Science Instars Mentoring Program** Portland, OR
Graduate Mentor 05/ 2014
- Assisted members of the Planning Committee in conducting student orientation
 - Facilitated networking opportunities and meeting navigation for Instars fellows
- Expanding Your Horizons in Science and Mathematics Conference** Berkeley, CA
Undergraduate Mentor 03/ 2013
- Introduced middle school girls to career opportunities in STEM fields
 - Led workshop sessions using LilyPad microcontroller boards to establish the concept of circuitry through wearables and e-textiles
- University of California Marching Band** Berkeley, CA
Member –baritone, Medical Committee, Academic Advisor, Recruiter 08/ 2009 – 05/2013
- Cal Corps Public Service Center** Berkeley, CA; New Orleans, LA
Magnolia Project – Summer Service Trip Team Captain 01/ 2011 – 06/2011
- Planned logistics with community partners in New Orleans Lower Ninth Ward Village, and led the break-off group to Abbeville
- Berkeley Project – Site Leader Berkeley, CA
03/2012; 03/2013
- Coordinated logistics for 3 service sites and rallied/communicated with student volunteers
- Habitat for Humanity** Falmouth, Jamaica
Collegiate Challenge – Winter Service Trip 01/ 2012
- Demolition/construction at 3 separate sites; withstood harsh weather & ferocious mosquitoes
- ASUC Sustainability Team** Berkeley, CA
Secretary, Core Officer 02/ 2010 – 08/2012
- Collected 3,000+ student signatures and passed the Bottled Water Coalition initiative on the 2011 student ballot to phase out the sales of plastic water bottles on campus
 - Fundraised and coordinated documentary screening of "A Sea Change" to spread environmental awareness in the context of Oceans Acidification