

BRIDGET GIBBONS

bridgetgibbons@bren.ucsb.edu | (716) 830-0505 | Santa Barbara, CA | [LinkedIn](#)

EDUCATION

Master of Environmental Science and Management (Expected June 2020)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Specializations: Water Resources Management | Economics and Politics of the Environment

Fellowships: Sustainable Water Markets Fellow (training in water transactions, water finance, and market mechanisms)

Highlighted Coursework: Water Policy, Natural Resources Economics and Policy, Cost Benefit Analysis (CBA), Watershed Analysis, Advanced Data Analysis, Environmental Law, Groundwater Management, Watershed Quality Management

Bachelor of Science in Environmental Engineering | Environmental Policy and Culture Minor (June 2014)

Northwestern University, Evanston, IL

Emphases: Sustainability & Energy Certificate, Writing Focus | Award: Murphy Institute Scholar (\$5,000)

WATER RESOURCES, POLICY, & MANAGEMENT EXPERIENCE

Co-Project Manager, Siting Groundwater Recharge to Achieve Multiple Benefits (Master's Group Project)

Client: Environmental Defense Fund (EDF), Western Water Program, Santa Barbara, CA (4/19–Present)

- Co-lead team of 4 to build decision support tool that allows water managers to site groundwater recharge projects in areas that preserve water quality, augment community drinking water supplies, and support ecosystems
- Manage communication with client, water agencies, academic researchers, and groundwater experts; lead twice-weekly meetings and create agendas to ensure progress toward project objectives
- Develop geospatial tool using ArcMap that is transferrable throughout California's Central Valley and can be customized by users based on local priorities such as proximity to existing water conveyance or domestic wells

Policy Intern, Healthy Rivers & Lakes Program – Western Resource Advocates, Boulder, CO (6/19–8/19)

- Conducted 50-state analysis of laws and policies that require inclusion of a water supply element in local comprehensive plans to support WRA's ongoing advocacy work to adopt such a policy in Colorado
- Coordinated interviews with state agency representatives from 5 states to contextualize how a water element policy could be developed to work within Colorado's existing planning laws, environmental needs, and politics
- Contributed to creation of WRA's State Water Policy Database, to be used by water managers and policy makers; identified 15 notable policies related to conservation, water reuse, and land use and water integration

Environmental Project Manager – ECS Midwest, LLC, Chicago, IL (7/14–6/18)

- Executed 500+ Phase I and II Environmental Site Assessment (ESA) Reports; coordinated 5 remediation projects
- Devised recommendations to mitigate groundwater and soil exposure pathways of regulated contaminants for residential, commercial, and industrial projects within client budgetary constraints
- Established relationships with 300+ clients including state agencies, NGOs, businesses, and private landowners

Water Rights Researcher, Murphy Institute Independent Project – Northwestern University (6/12–6/14)

- Performed comparative literature review of prior appropriation and riparian water right systems in the United States
- Assessed policy weaknesses in managing water resources while maintaining adequate environmental baseflows

TECHNICAL DATA & WATER-RELATED FIELD/LAB EXPERIENCE

Database Project Intern – Alliance for the Great Lakes, Chicago, IL (1/14–6/14)

Geocoded database of 15,000+ volunteers in ArcGIS in order to assess spatial distribution; designed best management practices for database organization and volunteer outreach strategies

Hydrodynamic Transport Research Assistant – Northwestern University, Evanston, IL (10/11–5/13)

Recreated stream flow patterns using laboratory flumes to study sediment exchange with subsurface conditions to model transport of stream-borne contaminants; analyzed 500+ water samples using microscopy and flow cytometry to quantify contaminant concentrations

Hydrology Technician – USDA Forest Service, Ashley National Forest, Vernal, UT (6/12–8/12)

Surveyed springs and wetlands for national and state databases of groundwater sources; utilized Multiple Indicator Monitoring and Rosgen Classifications to assess cattle grazing impacts on streams; performed in-situ water chemistry tests to assess river and stream health to inform forest management strategies

SKILLS & PROFESSIONAL INVOLVEMENT

Computer: Microsoft Office Suite (Word, Excel, PowerPoint), ArcGIS, RStudio, MATLAB, BASINS, Tableau

Associations: Association of Environmental Professionals (AEP), American Academy of Environmental Engineers

Volunteer Work: Alliance for the Great Lakes (Adopt-A-Beach Program and Ambassador)

Leadership: Steering and Professional Development Committees, Bren Sustainable Water Markets Fellowship Program; Refine mission and create bylaws for alumni network's ongoing work; create technical skill webinars (9/18–Present)