

Kelly N. Archer, EIT
Environmental Engineer
kelly.nicole.archer@gmail.com, (510) 926-0462

Education

2013 - 2017 B.S. Environmental Engineering Science
University of California, Berkeley

Work Experience

Oct. 2018 - Present Design Engineer II, Sherwood Design Engineers (formerly Fall Creek Engineering)
- *Prepare civil and environmental engineering design plans, calculations, and reports*
- *Manage small projects, coordinate with clients, subcontractors and regulators*
- *Projects include decentralized wastewater treatment system design, creek restoration, trail design, retaining wall design, hydrology and hydraulic analysis*

July 2016 - Oct. 2018 Research Technician, Lawrence Berkeley National Lab
Air Quality Engineering Lab (PI: R. Maddelena)
- *Supported experimental research projects in field and machine/wood shop*
Atmospheric Aerosols Lab (PI: T. Kirchstetter)
- *Manufactured and maintained air quality sensors*
Aqueous Geochemistry Lab (PI: P. Nico) - *Prepared soil cores for analysis*

Summer 2018 Field Steward, Solano Land Trust
- *Assisted in land management operations including trail maintenance, weed abatement, ranch equipment maintenance, etc.*

July 2017 - May 2018 Water Resource Control Engineer
San Francisco Bay Regional Water Quality Control Board
- *Oversaw 50+ groundwater and soil remediation projects, including airports, dry cleaners, and brownfield redevelopments*
- *Reviewed technical engineering and geological work plans and reports*

Summer 2016 Mapping and Modeling Lab Assistant, Sally Thompson's Ecohydrology Lab
Department of Civil and Environmental Engineering, UC Berkeley
- *Performed catchment modeling and map-making with GIS*

2015-2016 Research Assistant, Wheeler Institute for Water Law and Policy
UC Berkeley School of Law
- *Researched California groundwater law and policy*

2014-2016 Research Assistant, Berkeley Water Center
- *Investigated water and energy use in agricultural products via life cycle analysis*

Publications

Green Nylen, N., Kiparsky, M., **Archer, K.**, Schnier, K., 2017 "Trading Sustainably: Critical Considerations for Local Groundwater Markets Under the Sustainable Groundwater Management Act". Wheeler Water Institute, Berkeley Law School

Canedo, R., Altman, E., **Archer, K.**, 2018 "UC Berkeley Basic Needs Report 2016-2017"

Technical Skills

AutoCAD Civil3D	ArcGIS / Grass GIS / QGIS	InDesign
Matlab / R	Microsoft Office	WaterCAD

Community Involvement

2020-Present Volunteer, Footbridge Services Center

2019 Volunteer, Community Water Center

2016-2017 Board Member and Resident, Berkeley Student Cooperative

2016-2017 Co-founder and Director, Winter Break Housing Program

2016-2017 Chair, Student Advisory Committee on Financial Aid and Education

2013-2015 Garden Manager and Educator, Student Organic Gardening Association