

Hope Dalton

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Professional Profile

Strategic and collaborative leader with over 20 years of experience spanning higher education, environmental science, public health, and regulatory policy. Proven ability to translate complex scientific concepts into accessible, experiential learning for adult students. Passionate about finding opportunities for collaboration to solve complex issues related to community resiliency, sustainability, and economic viability. Objective is to collaborate with industry, regulatory agencies, higher education, and the community to achieve mutual success.

Education

Master of Public Administration (MPA), Environmental Management, Policy, and Law | 2007
University of Colorado Denver

Masters Project: Science and Regulation: Jefferson County Colorado Groundwater
Overlay District

Bachelor of Science (BS), Chemistry (Minor in Technical Communication) | 2002
Metropolitan State College of Denver

Associate of Arts (AA), General Studies | 1998 | Johnson County Community College

Academic & Teaching Experience

Affiliate Instructor | University of Colorado Denver | August 2016 - Present

- Dedicated online instructor for the Department of Geography and Environmental Science.
- Creates interactive online learning modules that build foundational skills and develop proficiency.
- Teaches data-driven decision-making by instructing students on the use, communication, and geospatial analysis of existing data (e.g., ArcGIS Online, Google My Maps) for public, government, and employer audiences.
- Incorporates field trips to water and agricultural facilities to support applying theory learned in class.
- Mentors struggling students one-on-one regarding course materials and academic issues, referring them to campus resources as needed.
- *LMS: Canvas*

Academic & Teaching Experience (continued)

Courses Taught (University of Colorado Denver):

- Water Quality and Water Resources
- Hazard Mitigation & Vulnerability Assessment
- Earth Environments and Human Impacts
- World Regions Global Context
- Intro to Human Geography

Affiliate Instructor | Metropolitan State University of Denver | January 2003 - Present

- Serves as an online, asynchronous instructor for the Department of Journalism and Media Production (2004-Present) and previously the Department of Chemistry (2013-2014) both in-person and online, asynchronous.
- Designs and develops online courses using video and electronic media for students in technical communications, environmental writing, and chemistry.
- Develops and instructs self-paced and correspondence courses to meet the unique needs of a diverse student group.
- Continuously reviews and revises course content based on improved research in adult learning.
- Conducted onsite general chemistry and principles of chemistry lab courses, including chemical safety training and emergency response.
- *LMS: Blackboard, Blackboard Learn, and Canvas*

Courses Taught (Metropolitan State University of Denver):

- Introduction to Technical Communication
- Environmental Chemistry
- Writing for the Environmental Industry
- Making Media Social
- General Chemistry Laboratory (on-site)
- Survey of Chemistry Laboratory (on-site)

Course Developer | Red Rocks Community College | 2015

- Developed upper-level coursework for the Water Quality Management Technology Program, designed for use by other instructors.
- Ensured all course materials conformed with higher education standards.
- *LMS: D2L*

Guest Lecturer | University of Colorado Denver | 2016

- Provided lectures to graduate students on applying academic work in industry settings.
- Topics included: health, environmental science, policy, public participation, water, and others.

Professional Experience

Director | Colorado Produced Water Consortium, Department of Natural Resources

September 2023 - Present

- Leads the work of the Consortium in conjunction with the Governing Body.
- Collaborates with appointed members, DNR leadership, Colorado Energy and Carbon Management Commission, government members, and external partners to accomplish the requirements of HB23-1242 (Water Conservation in Oil and Gas Operations).

Strategic Project Liaison | Colorado Division of Criminal Justice, Department of Public Safety

October 2022 - September 2023

- Developed and streamlined seven grant programs, reducing processing time from 2 years to 6 months to expedite state funds to local law enforcement.
- Performed a full range of program management and coordinator tasks, using discretion and creativity to solve problems related to program objectives, law, and regulations.

eLearning and Communications Specialist | Colorado Division of Criminal Justice

December 2019 - October 2022

- Led complete rebuild and migration of three websites (Pacific to Drupal8) and supervised a team of eight staff in website administration and optimization.
- Created high-impact publications (legislative reports, annual reports, toolkits) using Adobe Illustrator and Adobe Design.
- Designed and implemented data collection tools and automated dashboards for project monitoring and resource allocation.
- Coordinated virtual meetings and collaboration using GoTo Meeting, Zoom, WebEx, and Google Hangouts.

Project and Grants Closeout Specialist | CO Division of Homeland Security & Emergency Management

November 2018 - December 2019

- Administered grants for community disaster recovery, managing all phases from preliminary damage assessments to closeout.
- Provided technical assistance and processed reimbursement/closeout requests.

Strategic Partnerships and Pretreatment Specialist | South Platte Water Renewal Partners

March 2017 - November 2018

- Served as a liaison to leverage partnerships with cities, sanitation districts, and other entities.
- Provided technical assistance to industries regarding wastewater treatment requirements and the Clean Water Act.

Professional Experience (continued)

Governmental Policy Analyst | Metro Water Recovery

August 2015 - April 2016

- Coordinated development and assessment of state and federal environmental regulations, providing implementation guidance and policy recommendations.
- Analyzed technical information for regulatory development and served as liaison between Governmental Affairs and Water Quality staff.

Water Quality Specialist | Tri-County Health Department

April 2007 - July 2015

- Managed grant for residential well water quality, leading to the development of a statewide environmental health tracking tool.
- Led team of public water system inspectors and developed an innovative inspection toolkit recognized as a national best practice.
- Provided expert consultation on drinking water, wastewater, reuse, conservation, and oil/gas activities to diverse stakeholders.
- Conducted training programs and developed targeted outreach materials on water quality and environmental health.

Chemist / Stormwater Technician | City of Golden

May 2003 - March 2007

- Worked in the water quality laboratory focusing on compliance sampling for drinking water and 401 permitting requirements.

Physical Science Technician | U.S. Geological Survey (USGS)

September 2000 - September 2003

- Conducted water quality tests in a research laboratory with a focus on coal combustion products, methane gas wells, arsenic, and uranium in water.

Publications & Presentations

2026

- "Produce, Reuse, Recycle: The Landscape of Produced Water." Panelist, 2026 Denver Water Law Review Symposium, Oil & Water: Energy Across the West, April 3, 2026.
- "The Future of Produced Water Reuse." Panelist, WateReuse Colorado, 2026 Colorado Conference, May 4, 2026.

2025

- Exploration of Alternatives to a Complete Prohibition of Centralized Produced Water Facilities in DI Communities, including Recommendations for Enhanced Protections. Commission Hearing, October 15, 2025.
- "Produced Water Management and Recycling: Tools for Statewide Targets." Panelist, 11th Annual Garfield County Energy & Environment Symposium, April 17, 2025.

Publications & Presentations (continued)

2025 (cont.)

- 2025 Colorado Produced Water Consortium Annual Update. Submitted to Colorado General Assembly, April 1, 2025
- Colorado Produced Water Consortium Exploration of Alternatives to a Complete Prohibition of Centralized Produced Water Facilities in Disproportionately Impacted Communities Resulting in Recommendations for Enhanced Protections in Disproportionately Impacted Communities and Attachment: Analysis of Rules and Regulations for Centralized Produced Water Storage and Treatment Facilities. Submitted to ECMC, September 5, 2025

2024

- Produced Water Reuse and Recycling Goals and Contemporaneous Decreases in Fresh Water Use Report. Submitted to State Agencies and Colorado General Assembly, December 2, 2024
- Identifying Barriers to the Safe Recycling and Reuse of Produced Water Report. Submitted to State Agencies and Colorado General Assembly, October 30, 2024
- CPWC Key Achievements Including Recommendations for the Upcoming Produced Water Rulemaking. Presentation, Commission Hearing, October 16, 2024.
- "Headwaters LIVE: The Water/Energy Nexus Adapting for the Future Panel." Panelist (Colorado Produced Water Consortium), Sustaining Colorado Watersheds Annual Conference, October 9, 2024.
- Colorado Produced Water Consortium Recommendations for 2024 ECMC Produced Water Rulemaking. Submitted to ECMC (Energy and Carbon Management Commission), September 17, 2024
- Initial Report on Infrastructure Storage, and Treatment Facilities Necessary to Achieve Different Levels of Recycling & Reuse of Produced Water. Technical Report, August 30, 2024
- "Oil and Gas Panel." Panelist, National Association of State Trust Lands (NASTL) 2024 Summer Conference, August 27, 2024.
- Strategic Priorities on Topics Related to Produced Water. Submitted to State Agencies and Colorado General Assembly, August 16, 2024
- "Panel 2: What produced water uses are being contemplated outside of the oil field?" Panelist, HEI Research Planning Workshop #3: Community Exposures to Produced Water, August 6, 2024.
- Initial Availability of Produced Water for Reuse and Recycling Analysis Report. Technical Report, August 1, 2024.
- Current State of Produced Water Infrastructure, Storage, and Treatment Facilities Across the State with Emphasis on the Denver-Julesburg Basin Report. Technical Report, July 1, 2024

Publications & Presentations (continued)

2024 (cont.)

- Initial Produced Water Regulatory Policy Coordination Report. Submitted to State Agencies and Colorado General Assembly, May 1, 2024
- 2024 Colorado Produced Water Consortium Annual Update. Submitted to Colorado General Assembly, April 1, 2024
- "Permitting Fit-for-Purpose Treatment & Reuse of Produced Water." Panelist, WaterReuse 2024 Symposium, March 12, 2024.
- "Update on Produced Water Treatment and Recycling and Reuse Efforts by the CO, NM, and TX Produced Water Consortia." Panelist, Permian Basin Water in Energy Conference, March 6, 2024.
- Initial Guidance Documents and Case Studies to Promote Best Practices for In-field Recycling and Reuse of Produced Water Report. Technical Report, March 1, 2024
- "Colorado Produced Water Consortium." Presentation at the Groundwater Protection Council (GWPC) Underground Injection Control (UIC) Conference, Oklahoma City, OK, February 27, 2024.
- "Presentation for the Colorado Produced Water Consortium." Presentation at the North Front Range Water Quality Planning Association, February 22, 2024.

2006-2015

- Private Well Water in Colorado: Collaboration, Data Use, and Public Health Outreach. *Journal of Public Health Management and Practice*, 2015
- Environmental Controls During a Boil Water Advisory, National Environmental Health Association (NEHA), September 25, 2014.
- "Colorado's Private Well Initiative: Collaboration and Data Use." Co-presenter with Eric Brown (CDPHE), National Environmental Health Association (NEHA) Annual Educational Conference (AEC), July 9, 2014.
- "Colorado's Private Well Initiative: Collaboration and Data Use." Online Course, National Environmental Health Association, January 1, 2014. (Case study on collaboration between federal, state, and local agencies to obtain and use water quality data related to private wells, data display using GIS, and unanticipated obstacles.)
- State of Colorado Design Criteria for Potable Water Systems, Small Systems Section, Colorado Department of Public Health and Environment, September 1, 2013.
- Douglas County Nitrate Study, National Environmental Health Association (NEHA), 2008
- Colorado's Private Well Initiative: Collaboration and Data Use, National Environmental Health Association (NEHA), 2009.
- Regional water issues and solutions publication for DCWater.org, Douglas County, Colorado 2007.
- Golf course maintenance impacts on water quality. Northern California Golf Association, 2006.

Certifications

- Prosci Train-the-Trainer Change Management, Certified Level 1, Prosci, 2018
- Change Management Certification, Prosci, February 2018
- Registered Environmental Manager (NREP #12542), 2009-2016
- OSHA 40-HR HAZWOPER, 2009-2016 (with annual refreshers)
- Bighorn Leadership Program, Graduate 2006

Professional Training

- Ethnicity, Diversity, and Inclusion
- Title VI of the Civil Rights Act
- Bullying Prevention for Higher Education
- Preventing Discrimination and Sexual Violence: Title IX, VAWA and Clery Act
- Video Best Practices for Online Courses
- Cybersecurity

Technical Skills

- **Instructional Design:** Curriculum development, online module creation, adult learning techniques.
- **LMS Platforms:** Canvas, Blackboard, Blackboard Learn, D2L, Saba.
- **Virtual Collaboration:** Zoom, WebEx, GoTo Meeting, Google Hangouts, JamBoard.
- **Productivity Software:** SmartSheet, Microsoft Office Suite, Google Workspace.
- **Graphic & Video:** Adobe Illustrator, Adobe Design, Adobe Premiere.
- **Data & Geospatial:** ArcGIS Online, Google My Maps, database management.

Awards & Recognition

- **Excellence Award**, City of Englewood, 2017
- **Best Practices Award**, National Association of County and City Health Officials, 2011
- **Commendation**, Colorado Department of Public Health and Environment, 2011
- **Utility and Environmental Administration Award**, American Public Works Association, 2005

Volunteer & Community Engagement

Planning Commission (Appointed) Jefferson County, Colorado | 2025 - Present

- Provides strategic input on county planning and land use.
- Develop and approve community plans and comprehensive plan
- Update Jefferson County Wildfire Resiliency Code, February 2026

One World One Water Technical Advisory Board (Appointed) | 2011-2018

- Provided input on water education curriculum at Metropolitan State University of Denver, building student interest in the water minor and fostering partnerships with the water industry.

Rocky Mountain Water Quality Analysts Association | 2005-2018

- Participated on the Board for strategic planning.
- Organized, instructed, and presented at annual conferences and quarterly training events on technical topics for water and wastewater chemists.
- Prepared quarterly newsletter (2005-2013)

South Metro Water Supply Authority | 2007-2015

- Provided training for middle school teachers and other professionals to use in developing their water curriculum.
- Developed textbooks, presentations, lectures, and activities.

Areas of Expertise

- Water Quality & Public Health
- Environmental Awareness & Policy
- Policy Development & Implementation
- Regulatory Analysis & Compliance
- Strategic Decision-Making & Risk Assessment
- Stakeholder Engagement & Collaboration
- Project & Grants Management
- Online Instruction & Curriculum Development
- Technical & Scientific Communication
- Comprehensive Planning