

Kevin Horrell

kevin.horrell@colostate.edu | 720.666.7965
www.linkedin.com/in/kevinhorrell
Fort Collins, CO

Water Quality

Data Analytics

Management

I am a professional graduate student in the Department of Ecosystem Science and Sustainability at Colorado State University pursuing a degree focusing on Water Resource Management. I am equipped with a strong foundation in chemistry, science communication, and laboratory management with experience. I am seeking a professional position as a scientist working to monitor the environment and analyze data from multiple sources to direct future research and inform policy and management decisions.

EDUCATION

Colorado State University, Fort Collins, CO
Professional Science Masters, Ecosystem Science and Sustainability
Water Resources with Data Science Specialization
Dec. 2025

Colorado State University, Fort Collins, CO
Bachelor of Science, Chemistry with Honors, ACS Certified
Bachelor of Science, Natural Science, Chemistry Education Concentration
May 2010

PROFESSIONAL EXPERIENCES

Laboratory Manager

Jan. 2021 – Aug. 2024

Clear Comfort Water, Inc. and Silver Bullet Water Treatment, LLC

- ◆ Developed and implemented new laboratory methods and procedures including a new total yeast and mold procedure to decrease laboratory costs by 50%
- ◆ Performed Quality Control and Quality Assurance at appropriate regular intervals to comply with ISO 17025
- ◆ Established and maintained all Laboratory Records according to a Quality Management Plan
- ◆ Managed laboratory inventory and ensure all materials were accessible and in stock
- ◆ Communicated and interpreted laboratory results in appropriate formats for all recipients
- ◆ Built and maintained relationships with vendors and clients regarding materials and results
- ◆ Cultivated new business through conferences that turned into leads and new clients
- ◆ Prepared the laboratory for ISO 17025 certification
- ◆ Achieved laboratory independence from outsourcing methods
- ◆ Managed chemical waste produced in the laboratory and manufacturing areas
- ◆ Hired, trained, and managed a summer intern to perform regular laboratory tasks

Laboratory Technician

Jan. 2020 – Jan. 2021

Silver Bullet Water Treatment, LLC

- ◆ Performed routine and non-routine tests using appropriate technical equipment and instruments, according to local and national water standards
- ◆ Created Standard Operating Procedures for laboratory methods and practices
- ◆ Extensive use of spectrophotometry and colorimetry for water analysis
- ◆ Developed spectrophotometric and colorimetric calibration curves and methods for sulfate, manganese, iron, hydroxyl species, and surfactants
- ◆ Prepared and supervised laboratory experiments following standard operating procedures, maintaining safety practices
- ◆ Maintained instruments and equipment in a clean and hazard free working laboratory

High School Science Teacher

Jan. 2011 – Jul. 2019

Cherry Creek High School, Fort Lupton High School, Machebeuf High School, Colegio San Pedro

- ◆ Created, prepared, and taught Chemistry, Physics, Earth System Sciences, and Astronomy aligned with Colorado State Standards and National Science Education Standards
- ◆ Collected and utilized data from multiple sources to direct lessons, teaching, assessment, and student progress
- ◆ Created a safe learning environment where students from all backgrounds were able to learn
- ◆ Maintained effective communication with students, parents, community members, administration, and colleagues
- ◆ Managed a safe learning laboratory environment utilizing standard practices and procedures
- ◆ Managed a Robotics Club, ensuring team success for 5 years, reaching national competitions
- ◆ Sponsored a MESA science club and received funding for state competitions through grants
- ◆ Coordinated and managed Robotics and MESA club trips out of state
- ◆ Coached Cross Country and Track and Field Teams
- ◆ 2014 Teacher of the Year

Chemistry Research Intern

Aug. 2008 – Dec. 2008

NASA Ames Research Center

- ◆ Researched the physical and chemical properties of biomass burning particles in the atmosphere
- ◆ Performed and refined analytical techniques for different organic residues using FT-IR Spectroscopy
- ◆ Analyzed and interpreted various spectroscopic data of biomass burning particles
- ◆ Communicated research results to group members and team leaders, and at the American Geophysical Union Conference in 2008
- ◆ Followed standard operating procedures in a research chemistry laboratory

Field Assistant and Lab Tech

Aug. 2006 – Aug. 2008

United State Forest Service

- ◆ Collected, organized, and analyzed various data on the Mountain Pine Beetle tree epidemic
- ◆ Prepared water samples for ion chromatography and flow injection analysis
- ◆ Prepared and analyzed pine needle samples for elemental analysis using AAS
- ◆ Synthesized ion resins for placement in the forest floor
- ◆ Prepared forest vegetation samples for analysis
- ◆ Effectively followed standard laboratory procedures

Administrative Assistant

Colorado State University, Fort Collins, CO

Jan. 2009 – Dec. 2009

- ◆ Assisted all office staff in administrative duties
- ◆ Communicated effectively with students, administrators, parents, and prospective students through phone, online, and face-to-face
- ◆ Maintained and organized student and office data
- ◆ Utilized the MS Office suite of programs (Word®, Excel®, Access®, Outlook®)

RELEVANT COURSEWORK EXPERIENCE

Water Law

Fall 2024

Land Use Hydrology

Fall 2024

Environmental Data Science Applications: Introduction

Fall 2024

Applied Water Resource Economics

Spring 2025

Water Resource Development

Spring 2025

Environmental Data Science Applications: Reproducible Remote Sensing Models

Spring 2025

Environmental Data Science Applications: Water Resources

Spring 2025

Sustaining River Ecosystems in a Changing World

Spring 2025

Snow Hydrology Field Methods

Spring 2025

COMMUNITY INVOLVEMENT

- ◆ Colorado State University ESS Department DEI Committee Member (Sept. 2024-present)
- ◆ Volunteers for Outdoor Colorado Volunteer (2022-present)
- ◆ Colorado Gay Volleyball Association Member, Volunteer Coordinator, Board Member (2012 – 2024)
- ◆ Epilepsy Foundation of Southeast Texas Volunteer with Camp Spike ‘n Wave (2004-2009)
- ◆ FIRST Robotics Team Coach (Aug. 2014 – May 2019)
- ◆ Cross Country and Track Coach (Aug. 2012 – Oct. 2018)
- ◆ MESA Science Club Sponsor (Aug. 2012 – May 2014)
- ◆ University Church Service and Leadership Team: President, member (Aug. 2008 – Dec. 2010)
- ◆ Passionate runner, hiker, camper, skier, coffee consumer and sourdough baker

HONORS AND AWARDS

Dean's List	2006, 2007
Provost Scholar	2005-2009
Fort Lupton High School Teacher of the Year	2014