TREVOR A. GEARHART

Bellingham, WA • [redacted]
[redacted]

SKILLS

- **Climate Change and Carbon Planning:** Expertise in carbon/climate change planning for landowners and farmers.
- **Greenhouse Gas Emissions Modeling and Accounting:** Proficiency in GHG emissions modeling and accounting, with emphasis on tracking and reporting impact and progress metrics related to carbon.
- **Team and Project Management:** Strong capabilities in team and project management, including scheduling, tracking, meeting facilitation, and conflict management.
- **Program Design and Planning:** Experience in program design and planning, scope of work definition, risk analysis, and budget tracking.
- **Writing and Communications:** Skilled in writing grants, manuscripts, reports, and educational presentations, supporting needs for clear communication and information synthesis.
- **Customer Service:** Commitment to providing respectful and informative customer service, ensuring assistance in meeting stakeholder needs.
- **Technical Proficiency:** In Windows, Mac, Asana, Zoom, MS Teams, SharePoint, database management, and other relevant technologies used in project coordination and communication.
- **Programming Knowledge:** Competent in Python, R, SQL, and GIS, helpful for data analysis, metrics tracking, and supporting research activities.
- **Equity and Inclusion:** Understanding and commitment to equity and inclusion, respecting differences in identity and beliefs.
- **Adaptability and Strategic Thinking:** I bring an adaptive and strategic approach to all problems, capable of thriving in a decentralized organization and contributing to innovative, on-the-ground solutions.

EXPERIENCE

Whatcom County Food Systems Committee 2023 - present
Committee Member

Assisted in writing and reviewing the “Whatcom County Food System Plan - A 10-year plan for an equitable and sustainable food system.”

Communicate with local government and private organizations about strategic linkages between partnerships associated with the food system plan, focusing on agriculture, carbon, and natural resources.

Whatcom Conservation District, 2022- present
Natural Resource Specialist - Farm/carbon Planner

Part of a diverse team of educators, scientists, and planners working to improve the environmental resilience of Whatcom County, with a specific focus on the interactions between development, Carbon emissions, agriculture, and water quality/availability.

- Assist farmers and landowners by providing carbon/climate change planning for their land, including funding, budgeting, site assessment, and feasibility.
- Started and funded a program to provide local landowners with Carbon/climate change planning for their land, addressing current concerns and opportunities and modeling potential effects of management changes on carbon emission and sequestration.
- Work with a diverse team of government agencies and organizations to address water resource concerns in the county and strategize communication approaches for addressing land-owner-specific concerns.
- I applied for grants in diverse areas, including carbon sequestration, conservation, agricultural support, and food systems. My efforts led to several notable successes:
    - I successfully authored and secured a $67,000 grant to initiate a comprehensive carbon planning program, focusing on developing effective strategies for carbon footprint reduction and environmental sustainability."
    - I obtained $81,000 in funding for a producer to implement a silvopasture carbon mitigation project in Whatcom County.
    - I was awarded a $25,000 grant to start a cover crop cost-share program at WCD, including providing a no-till seed drill responding to the needs of multiple stakeholders.
    - I secured $5,000 in funding for a program designed to offer simultaneous Spanish interpretation at educational events and to translate educational materials for Spanish speakers.

- Provide natural resource and conservation-based education and assistance to farmers, landowners, and community members in Whatcom County.

Bright Thread Farm, 2021- present
Owner/Farmer

Run a high-diversity organic market farm specializing in premium quality produce while incorporating regenerative best management practices.

- Operate a 3.2-acre organic market farm and kiwi orchard.
- Planned and implemented irrigation for multiple crops using overhead and drip systems and also implemented dry farming techniques for water conservation.
- We sell at the Ballard Farmers Market, to local restaurants, and wholesale.
- Communicate with multiple farmers and land managers over shared resources.
- Accredited Certified Naturally Grown, growing under and maintaining organic certification requirements.
- Manage social media and marketing.

Exact Scientific Services, 2016 - 2021
Director of Organic Chemistry

Managed six organic chemists of varying career advancement, analyzing environmental, nutritional, agricultural, and industrial projects: managed research projects and client-sponsored projects for the department.

- Reported findings to clients and assisted clients with interpreting results within regulatory guidelines.
- Compiled, reviewed, and entered data from multiple reports daily, ensuring that all data reported met QC requirements and was presented to the client's specifications.
- Tracked multiple projects, recording and reporting on their progress and maintaining records for clients and internal reports.
- Wrote standard operating procedures for analytical methods, ensuring compliance with ISO and EPA requirements.
- Researched and implemented new analysis methods, evaluating sources for quality and feasibility.

- Conducts maintenance on gas-chromatography equipment, including installations, calibrations, ordering parts, troubleshooting, and maintaining records of work completed.

The University of Vermont, 2012 - 2016
Research Assistant

Worked with a team of researchers to address the potential compounding impacts of climate change and land use (agriculture, development) on aquatic ecosystem/human health and model how public policy decisions can help mitigate those impacts and increase restoration.

- We represented our research team by providing regular briefings and updates to local stakeholders (dairy farmers), state/city agencies, state legislature, and international scientific communities.

- I was responsible for collecting, quality control, and interpreting environmental field data, including atmospheric, biological, and water quality data, sediment chemistry, and habitat characteristics.

- Performed statistical analysis and quality control on data obtained from my own and other's research

- Installed and maintained environmental monitoring equipment, including automated water samplers, profiling buoys, and optical sensors capable of transmitting data back to databases.

- Developed, recommended, and implemented environmental monitoring, including permit applications and reporting.

Marine Biological Laboratory, Summer. 2010
Research Intern

Team member on an NSF-funded grant determining the impacts of wildfires and climate change on nutrient loading in freshwater ecosystems.

- I conducted sampling of remote Arctic streams as research at the Toolik Lake Ecological Research station in Alaska.

- Maintained and installed automated water samplers and optical sensors.

- Collected and processed chemical, physiological, and biological samples and data.

- Conducted riparian and wetland habitat surveys to determine areas of likely habitat degradation and biological community.

EDUCATION/ACTIVITIES

B.Sc. Environmental Science, minors in Biology and Chemistry 2011
Western Washington University

Ph.D. Candidate Biology, 2012 – 2016
Climate Change Impacts on Aquatic Ecosystem Stability
University of Vermont

Certificate in Sustainable Agriculture 2021
Viva Farms

Conservation Planner 2023
NRCS

Carbon Farm Planner Certificate 2023
Carbon Cycle Institute

PUBLICATIONS

Gearhart, T. A., Ritchie, K., Nathan, E., Stockwell, J. D. & Kraft, J. (2016). Alteration of essential fatty acids in secondary consumers across a gradient of cyanobacteria. Hydrobiologia, 1-16.

Isles, P. D., Giles, C. D., **Gearhart, T. A**., Xu, Y., Druschel, G. K., & Schroth, A. W. (2015). Dynamic internal drivers of a historically severe cyanobacteria bloom in Lake Champlain revealed through comprehensive monitoring. *Journal of Great Lakes Research*, *41*(3), 818-829.