

Christopher Beaver

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Professional Summary

I am a motivated data analyst with over a decade of experience in data cleaning, analysis, modeling, and visualization. From initial data collection and cleaning to final product, I present results in a clear and concise manner through illuminative reports, compelling data visualizations, and interactive web apps. [Click here](#) to access my portfolio site with examples of interactive Shiny apps. I am seeking an opportunity to utilize my skills to generate impactful data driven solutions.

Hard skills

- Data management
- Proficiency in Python, SQL, R
- Data visualization (Tableau, R, Python)
- Microsoft suite
- Predictive modeling
- Machine learning
- Shiny app development and deployment

Soft skills

- Complex problem solving
 - Research skills
 - Detail oriented
 - Time management
 - Interpersonal skills
 - Cross-disciplinary collaboration
 - Excellent written and spoken communication skills
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Work History

Contract Data Analyst – Remote, August 2024-Present

- Clean, transform, and analyze data for statistical analysis using R, python, and excel.
- Develop and deploy R Shiny Apps.
- Filter and manipulate data using PostgreSQL and BigQuery.
- Write executive summaries to communicate data analysis results.

Contract Grant Manager – Energy Northwest, Richland, WA, April 2024-August 2024

- Researched and wrote state and federal grant proposals for alternative energy production in Washington and Oregon.
- Built data visualizations using python to forecast the installation of fast electric vehicle (EV) charging stations across eastern Washington.
- Conducted exploratory data analysis (EDA), wrote executive summaries, and presented to stakeholders.

Research Associate – Washington State University, Richland, WA, May 2016-April 2024

- Built models using unsupervised and supervised machine learning algorithms to identify small phenolic compounds and quantify ethanol by recording their Raman spectra.
- Developed a predictive model for phenolic content prediction and deployed it on a Shiny app.
- Collaborated with commercial wineries across Washington State, California, and Australia to utilize Shiny app to quickly and accurately predict phenolic compounds commonly found in red wine.
- Collaborated with the Environmental and Molecular Sciences Laboratory at Pacific Northwest National Laboratory to develop unsupervised models for identifying phenolic compounds.
- Mentored graduate students, reviewed and edited technical writing, and managed laboratory purchasing and reconciliation through Workday.
- Analyzed and visualized data using the R and Python languages.
- Identified funding opportunities and applied for grants to conduct research.
- Created posters and other media for presentations.
- Published research in peer reviewed journals.

Research Associate – Washington State University Irrigated Agriculture Research and Extension Center (WSU-IAREC) Prosser, WA, June 2011-May 2016

- Calibrated and validated a model for predicting tannin polymer size in red wines.
- Analyzed and visualized data using the R language to fulfill various project requirements.
- Isolated tannins from raw cacao beans using flash chromatography and preparative High Performance Liquid Chromatography (HPLC).
- Wrote and published manuscripts of my work accordance with peer reviewed journal format requirements.

Certificates

- Complete SQL Bootcamp: From zero to Hero – Udemy, September 2024 – December 2024
 - Business Analytics with Tableau Pathstream – Coursera Plus, May 2024 – September 2024
 - Advanced Data Analyst – Coursera Plus, November 2023 – April 2024
 - Machine Learning A-Z – Udemy, June 2023 – September 2023
 - PostgreSQL – University of Michigan through Coursera Plus, February 2023 – May 2023
 - Data Analyst – Coursera Plus, September 2022 – January 2023
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Education

- Master of Science – Washington State University, Pullman, WA, September 2009 - May 2011
 - Bachelor of Arts – Westminster College, New Wilmington, PA, September 2000 - May 2004
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Languages

- English (Native), Spanish, Swahili
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Links

- Portfolio: chris-beaver.com Publications: scholar.google.com LinkedIn: www.linkedin.com
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Awards and Achievements

- Paper of the year (2013) from the American Society of Enology and Viticulture
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References

- Federico Casassa - California Polytechnic University (lcasassa@calpoly.edu, (805) 756-2751)
 - Matthew Boenzli - Chandler Reach Winery (matthew.boenzli@gmail.com, (541) 971-3018)
 - Layton Ashmore - Washington State University (phillip.ashmore@wsu.edu, (919) 308-3516)
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