

Christopher Beaver

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Professional Summary

I am a motivated data analyst with thirteen plus years 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. Follow links at the top of the page to access my portfolio site, view my publications on Google Scholar, and visit my LinkedIn page. I am seeking an opportunity to utilize my skills to generate impactful data driven solutions.

Hard skills

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

Soft skills

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

Contract Data Analyst – Remote, April 2024-Present

- Conduct exploratory data analysis (EDA)
- Clean, transform, and analyze data for statistical analysis using R, python, and excel
- Build Machine Learning Models for data classification and Regression
- Visualize analytical results using R and Python
- Map data and combine analytical results in Tableau
- Develop and deploy R Shiny Apps
- Filter and manipulate data using PostgreSQL in pgAdmin
- Write executive summaries to communicate actionable insights
- Edit proposals and manuscripts

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

- Built models using unsupervised and supervised machine learning algorithms from data obtained using Surface Enhanced Raman Spectroscopy (SERS), spontaneous Raman spectroscopy, and UV-visible spectrophotometry
- Developed predictive models in both R and Python and deployed R Shiny apps
- Collaborated with commercial wineries across Washington State, California, and Australia to deploy Shiny apps
- Collaborated with the Environmental and Molecular Sciences Laboratory at Pacific Northwest National Laboratory (EMSL) to develop unsupervised models from Surface Enhanced Raman Spectral (SERS) data
- Mentored graduate students, reviewed and edited technical writing, and managed laboratory purchasing and reconciliation through Workday
- Routinely analyzed and visualized data using the R and Python languages
- Stored and manipulated data using PostgreSQL in pgAdmin
- Identified funding opportunities and applied for grants to fund and 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

- Developed models from High Performance Liquid Chromatography (HPLC) and Mass Spectrometry (MS) data
- Routinely analyzed and visualized data using the R language
- Isolated compounds of interest in bulk using flash chromatography
- Wrote and published manuscripts in peer reviewed journals
- Managed hazardous waste storage and removal

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

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

Awards and Achievements

- Published in peer reviewed journals (scholar.google.com)
- Paper of the year (2013) from the American Society of Enology and Viticulture
- Collaborated with Pacific Northwest National Laboratory

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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