

# Tomas Fernandez' CV

## **Tomas Fernandez**

Data Analyst, Physicist, Husband, Father

[My LinkedIn profile](#) | [My GitHub portfolio](#)

### **Currently**

Data Analyst II at CorVel Corporation (working remotely), leveraging SQL, Python, and AI tools to drive strategic business decisions through data analysis and visualization.

### **Specialized in**

Data analysis, data visualization (Tableau, Power BI, Excel), SQL, machine learning models in Python (Decision Trees, Random Forests and Linear Regression), creation of C# applications, and physics-related computational applications.

### **Research interests**

Monte Carlo simulations, computational fluid dynamics (CFD), statistical analysis, data-driven decision-making, and process optimization.

## Education

2023 - Present **Brigham Young University - Idaho, Rexburg, ID**

B.S. in Physics with a minor in Computational Physics

Key Projects:

- Simulated fluid behavior in various scenarios using OpenFOAM, analyzing velocity profiles, pressure distributions, and vortex dynamics to gain insights into complex fluid phenomena.
- CFD analysis for Formula SAE car (5% drag reduction)
- Developed a predictive model using machine learning algorithms to simulate planetary motion, accurately forecasting orbital trajectories and celestial body interactions, and demonstrating the application of AI in astrophysical research.

2018 - 2023 **Ensign College, Salt Lake City, UT**

Associate of Business Management - Data Analytics

Key Projects:

- Designed and implemented a comprehensive database for a fictional e-commerce company, creating tables, relationships, and indexes to support efficient data retrieval and analysis.
- Developed interactive dashboards for the World Cup 2022 using PowerBI, providing insights into team performance, player statistics, and fan engagement through dynamic visualizations and data storytelling.

## Experience

February 2023 - Present **CorVel Corporation, Portland, OR**

### Data Analyst II

- Extract, manipulate, and analyze data using SQL to support decision-making.
- Clean and preprocess data for integrity and visualization readiness.
- Create Excel and Power BI dashboards and visualizations for stakeholders.
- Collaborate with cross-functional teams to deliver actionable insights.

September 2020 - February 2023 **Weave Communications, Lehi, UT**

**Sales Operations Analyst**

- Managed Salesforce lead database, increasing revenue per lead by 25%.
- Led daily scrum meetings using agile methodologies.
- Developed team-wide reports and dashboards for performance tracking.
- Improved lead sourcing by 44% through event and conference strategies.
- Managed JIRA for project tracking and process optimization.