

# KARL REGER

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## EDUCATION

### Northern Arizona University – M.S. Statistics

Relevant Coursework: Mathematical Statistics, Statistical Methods, Deep Learning, Time Series

Expected May 2027

Flagstaff, AZ

### Northern Arizona University – B.S. Data Science (Mathematics Minor)

GPA: 3.87/4.0 | Coursework: AI, Statistical Computing, Database Systems, Regression Analysis

May 2025

Flagstaff, AZ

### Galvanize, Data Science Immersive

700+ hour curriculum in applied machine learning, statistical analysis, and predictive modeling

2020

## RESEARCH EXPERIENCE & QUALIFICATIONS

### Graduate Research Student

Northern Arizona University, Department of Mathematics & Statistics

2025 – Present

Flagstaff, AZ

- Conducting advanced statistical research using R; **first author** on manuscript under peer review in *Cancers*
- Current **CITI human subjects research** and **responsible conduct of research certification**
- Proficient in collaborative workflows using **Microsoft Teams** and Git/GitHub

### Healthcare Data Analysis Project

Where Are All The Opioids Coming From: Medicare Prescriber Data Analysis

2020

- Led analysis of Medicare opioid data identifying prescription abuse patterns using ensemble methods in Python
- Developed ethical framework for responsible implementation of predictive healthcare algorithms

## TECHNICAL SKILLS

<b>Statistical Tools</b>	R (tidyverse, data.table, statistical packages), Python (pandas, numpy, scikit-learn), SQL
<b>Machine Learning</b>	Regression, Classification, Ensemble Methods, Neural Networks, NLP, Feature Engineering
<b>Research Tools</b>	Microsoft Teams, Git/GitHub, Jupyter, RStudio, LaTeX
<b>Visualization</b>	ggplot2, matplotlib, Tableau, interactive dashboards
<b>Methods</b>	Hypothesis Testing, Bayesian Methods, Time Series, Experimental Design

## PROFESSIONAL EXPERIENCE

### Associate Data Scientist, Instructor

Galvanize

2020 – 2022

Remote

- Led technical curriculum for 25+ data scientists achieving **92% industry placement**; mentored 100+ students
- Provided guidance on statistical methodologies, code quality, and research best practices
- Designed assessment frameworks improving retention by **15%** and facilitated ethical AI workshops

### Implementation Consultant (Intern)

Fast Enterprises

2014 – 2017

Santa Fe, NM | Olympia, WA | Wellington, NZ

- Developed ML-based address validation system saving New Zealand's tax authority **NZ\$100,000+ annually**
- Translated complex policy requirements into technical specifications for international government agencies

### Engineering Laboratory Technician (Submarines)

U.S. Navy – SSBN 730 USS Henry M. Jackson

2008 – 2012

Secret Clearance

- Led data-driven monitoring of nuclear propulsion systems; analyzed complex time-series data
- Developed training programs for 50+ personnel, improving qualification rates by **25%**

## ADDITIONAL INFORMATION

**Certifications:** CITI Human Subjects Research, CITI Responsible Conduct of Research (NAU)  
**Research Interests:** Healthcare data analysis, health services research, applied machine learning  
**Awards:** United Soccer Coaches Premier Diploma, "30 under 30" Finalist