

## Zachary Dyne

Somerville, MA 02144 | 818-430-4959 | Zachary.Dyne@ode.oregon.gov | zldyne.netlify.app

### EDUCATION

---

#### Graduate Certificate: Data Science

*Willamette University*

May 2020

GPA: 4.00

#### MBA: Operations & Systems Analysis, Public Management

*Willamette University*

May 2020

GPA: 3.87

#### BA: Sociology

*Willamette University*

May 2019

GPA: 3.87

### RELEVANT WORK EXPERIENCE

---

#### Research Analyst III, Child Nutrition Programs

Oct 2021 – Present

Oregon Department of Education: Salem, OR

- Independently oversaw all aspects of data management, analysis, and reporting for the Child Nutrition Programs and provided support in a timely manner to both internal and external stakeholders
- Ensured the accuracy of reconciliation of \$400M+ in meal claims financial data to validate and identify discrepancies between actual versus calculated payment amounts to each school district by building a one-click automated application in R and SQL
- Designed and created a suite of interactive, dynamic, real-time dashboards using SQL and Power BI to serve as a one-stop-shop to monitor 100+ metrics to inform decision-making by leadership
- Innovated a new forecasting model in R to analyze economic and administrative data from ODE, ODHS, and OHA to estimate the cost of nutrition policies to guide senior leadership in budget decision-making
- Presented at the nationally renowned Child Nutrition Access and Accountability through Technology (CNAAT) conference about forecasting the cost of universal school meals
- Implemented new automated processes in R and SQL to validate meal claim entry and Direct Verification collections to detect errors, creating audit documentation, and sending email documentation, thereby reducing weekly time spent by executive management by 87.5%
- Led requirements gathering, design, and implementation of an interactive map in R Shiny to illustrate the geographic distribution of schools to receive accurate RFPs from potential food distributors
- Directly contributed to a 10-hour weekly increase in productivity and improved data quality through conceptualizing and implementing a centralized R application that automates data collection through ETL, data visualization, and report generation to provide a seamless user experience for USDA Food Distribution Program management
- Effectively communicated with a group of interdisciplinary academics by facilitating their understanding of CNP data and identifying pertinent data sources for usage in innovative research
- Served as thought partner for interdepartmental initiatives such as Data Governance Committee, AI Governance Workgroup, Measure of Socioeconomic Status Committee, and Data Visualization Style Guide Workgroup

#### Fiscal Analyst II

Jul 2020 – Oct 2021

Oregon Department of Education: Salem, OR

- Facilitated fiscal monitoring meetings with managers with differing seniority levels to identify technical and programmatic issues and to ensure reporting compliance for the Child Nutrition Programs, Office of Equity, Diversity, and Inclusion, Office of Indian Education, and Federal Coronavirus Relief Programs
- Developed a suite of SQL queries and Excel templates to streamline CNP fiscal reporting and internal documentation, which were adopted by the USDA as a standard reporting guide for state agencies
- Collaborated with federal and state agencies to ensure accurate and timely program administration

---

## OTHER RELEVANT EXPERIENCE

---

### Project Manager

Aug 2019 – May 2020

Willamette MBA Community Grant Program: Salem, OR

- Effectively managed a community grant program responsible vetting and granting \$100,000 to local not-for-profits and for ensuring on-track progress for prior awards totaling approximately \$0.5M
- Designed and created a SQL database to store outcome data on previously funded projects and student alumni that can be easily retrieved to aid in organizing institutional knowledge
- Spearheaded creation of a risk model to assess financial risks of new and past project proposals

### Statistics and Data Science Tutor

Aug 2018 – May 2020

Willamette University: Salem, OR

- Deepened students' understanding of concepts and programming skills in R and SPSS related to statistics, research design, and analytical writing for introductory through thesis-level courses

### Public Policy Analysis Competition Finalist

Jan 2020 – Mar 2020

City of Kansas City, Missouri: Kansas City, MO

- Wrote a quantitative policy memo analyzing the impact of Kansas City's zoning laws on economic mobility, education outcomes, and racial equity in response to a policy recommendation prompt
- Presented policy recommendations to senior city management after being selected as one of eight finalists from a highly competitive nation-wide pool

### Data Analytics Intern

May 2019 – Aug 2019

United Way of the Mid-Willamette Valley: Salem, OR

- Leveraged multiple data sources to analyze real estate market in Tableau to provide the Strategic Initiatives Team with insights specific to United Way's affordable housing project goals
- Created multiple Tableau visualizations of census data for fundraising teams to use in communicating the need for United Way's affordable housing projects

### Program Analyst Intern

Oct 2017 – Apr 2018

Salem Multicultural Institute: Salem, OR

- Conducted qualitative and quantitative research to analyze program impact from a diverse set of viewpoints across the communities served by the organization
- Presented findings to executive management and wrote an evaluative report for Board of Directors to guide decision making and identify opportunities for improving organizational strategy

### Food Justice Trip Facilitator, Take-a-Break Program

Oct 2017 – Apr 2018

Willamette University: Salem, OR

- Co-taught classes on food insecurity and food sovereignty from economic, public health, and social justice perspectives to a class of undergraduate and Japanese exchange students
- Corresponded with local farmers, non-profit organizations, and activists to coordinate a spring break, service-learning trip around Boise, Idaho

### Public Health Research Assistant

May 2012 – Aug 2017

Los Angeles County Department of Health Services: Sylmar, CA

- Conducted interviews in English and Spanish with emergency department patients to gather qualitative and quantitative data for research on social determinants of health, emphasizing the effects of race, gender, and language barriers on healthcare access

---

## SKILLS

**Programming Languages:** R, SQL, SPSS, VBA

**Data Visualization Tools:** R Shiny, Power BI, Tableau, OBIEE, Excel