

# (GORDON) ZHAOQI AN

Division of Computational and Data Sciences  
McKelvey School of Engineering, Washington University in St. Louis, Saint Louis, MO  
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## EDUCATION

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**Washington University in St. Louis** Saint Louis, MO  
Ph.D. in the Division of Computational and Data Sciences August 2022 – present

- Computational Methodologies track

**University of Washington, Seattle campus** Seattle, WA  
Bachelor of Arts in Mathematics June 2021

- Minor in Informatics

## RESEARCH INTERESTS

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- Machine Learning
- Data Science, Analysis, Visualization
- Optimization
- Data argumentation for improving deep learning

## RESEARCH EXPERIENCE

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**University of Washington, Information School** Seattle, WA  
Worked with Professor Jevin West and Ph.D. Student Robert Keener June 2021 – October 2021

**Research paper: *The Current State of Media Literacy: A Content Analysis of K-12 Media Literacy Academic Standards***

- Examined and compared the media literacy standards in the 50 U.S. states by summative content analysis.
- Found and analyze media literacy academic standards for each state, and concluded 12 themes and 4 sub themes that represent all media literacy standards.
- Visualized US state maps for each theme in the content analysis of Media Literacy academic standards across states.
- Designed a web page showing the abstract of the paper and the maps for K-12 media literacy academic standards.

**University of Washington, Information School** Seattle, WA  
Worked with Professor Jevin West March 2021 – June 2021

**Eigenfactor Scores Analysis**

- Measured the number of times that articles were published during a census period, providing citations to papers published during an earlier target window.
- Implemented Eigenfactor Metrics to rank the influence of scholarly journals with 20951 journals and over 10 million citations.
- Optimized the run time of the code to improve the efficiency.

## ACADEMIC PROJECT

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**University of Washington, Department of Statistics** Seattle, WA  
Worked with Ph.D. Student Shane Lubold March 2020 – June 2020

**Washington Directed Reading Program - Random Graph Analysis**

- Analyzed the properties and behaviors of random graph models, particularly the Erdos-Renyi model and Barabasi Albert model by using probability theory and simulations in programming.
- Studied the threshold property and the notion of connectedness in random graph theory and examined the probabilistic method.

## PUBLICATIONS

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- Keener, Robert, An, Gordon, West, Jevin D. (2022) The Current State of Media Literacy: A Content Analysis of K-12 Media Literacy Academic Standards. (In prep)

## WORK EXPERIENCE

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**Microsoft**  
Microsoft Green AI 2022 Team 1 leader January 2022 – July 2022

- Compared InceptionV3 to DenseNet in terms of energy consumption and cost saving to inform customers on which model will give them the results they desire at a lower price and environmental impact.
- Collected multiple data sources related to energy production and carbon emission from various vendors, i.e. ElectricityMAP, PJM, WattTime, E2Intel, and REsurety.
- Created a pipeline that delivers the raw output of each vendor to a secured file location in Azure. Delivered the raw files that allow for historical perspective as well as the ability to adjust or modify the data elements included in the dimensional model.
- Developed an architecture for Microsoft centralized Emissions Factor data repository.

**DD GOLF CORP.**

USA

Marketing Research Analyst Intern

December 2021 – April 2022

- Gathering and analyzing data on consumers and competitors, and studying market conditions.
- Managing research projects, including working closely with external vendors, suppliers and contractors to oversee all operational components of projects.
- Developing research questionnaires, surveys, screeners, and discussion guides, based on project's scope.

**AWARDS AND HONORS**

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- Dean's list 2020, 2021
- Completion of the American Honors program 2019
- Honors Distinction in the American Honors program 2019

**HOBBIES AND ACTIVITIES**

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- Volunteer group leader in Microsoft Asian Spring Festival 2020
- Winner in CSS Got International Talent Competition 2019
- Volunteer Assistant in Seattle Folklife Festival 2019
- Financial Manager in Community Serving Club 2018, 2019

**SKILLS AND LANGUAGE**

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**Technical Skills**

- Proficient in Python, R, SQL, Tableau, Vega-Lite, and Machine Learning skills
- Familiar with Java, A/B Testing, HTML + CSS + DIV, Javascript, Excel, Matlab

**Language Skills**

- English (Fluent), Chinese (Native)

**MAJOR COURSES**

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Calculus; Abstract Linear Algebra; Modern Algebra; Linear Analysis; Real Analysis; Mathematical and Statistical Modeling; Optimization; Data Science; Databases and Data Modeling; Data Visualization; Data Structure; Machine Learning; Computer Programming