

Jacob Gifford

Address

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Contact Information

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Education

- **Ph.D., Economics** **Expected 2027**
Washington State University, WA
Primary Advisor: Jonathan Yoder (Director of Washington Water Resource Center)
- **B.S., Economics** **2023**
Minors in Mathematics and GIS
Brigham Young University - Idaho, Rexburg, ID
Cum Laude

Refereed Publications

- Gifford, J., & Oliver, J. (2021). Black Lives Matter and Granger Causal Testing: A Signal of Economic Deprivation. *Modern Economy*, 12(11), 1666-1685 <https://doi.org/10.4236/me.2021.1211084>

Organizational Publications

- Gifford, J. (2023) A Probabilistic Peak Flood Risk Model of the Henrys Fork in Fremont County. Fremont County GIS Office.
- Gifford, J. Martin, M. (2022) College of Business and Communication Diversity and Inclusion Report. BYU- Idaho (please request access).
- Sarpong D., Osei-Asare Y., Gray B., Tsekpo E. (2022) FarmGrow: Farm Development Plans for Small-holder Cocoa Farmers in Ghana Endline Report. Grameen Foundation (Contributions).

Research in Progress

- Working under the "Technology for Trade" grant to model water markets under institutional and environmental constraints, to improve use efficiency and improve our understanding of the mechanisms for optimal resource allocation between human and environmental systems.

Fellowships, Grants, Honors, & Awards

- Ezra Taft Benson Award for Excellence in Economics, BYU-I

- Thomas E. Ricks Academic Grant, Brigham Young University - Idaho
- Eagle Scout Award Recipient

Research Interests

- Computational socio-hydrologic (agent-based) modeling, remote sensing, spatial statistics, market/mechanism design, algorithmic game theory, and geographic information science

Professional Experience

- Research Assistant, Jonothan Yoder, School of Economic Sciences, WSU; Tech 4 Trade Grant 2024
- Teaching Assistant, Joe Cook, School of Economic Sciences, WSU 2023
- GIS Analyst Intern, Fremont County Idaho GIS Office 2023
- GIS Consultant, Better in our Backyard 2023
- Research Lead, College of Business and Communication, BYU-Idaho 2022
- Research Assistant, Jeffrey Oliver, Department of Sociology, Brigham Young University - Idaho 2021
- Research Analyst, Grameen Foundation 2021-2022

Teaching

- SOC 295-R Games in Economic Sociology, Department of Sociology, BYU-I 2021-2022

Service

- Economics Society President, BYU-Idaho 2021
- Community Service Volunteer, LDS church 2017-2019

Computer Programming and Software

- Python, R: Algorithms, GIS, statistical analysis, machine learning
- Esri suite, QGIS, Pix4D, GeoDa: Remote sensing, socio-spatial analysis
- HEC-RAS, EPA SWMM
- JavaScript, HTML, SQL

Foreign Language

- Portuguese

Last Update: 28 January 2022