BEATRICE L GORDON, Ph.D.

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SUMMARY

Interdisciplinary hydrologist with 12 years of professional experience in private organizations, academia, and nonprofits. Combines deep technical knowledge of hydrology with a passion for science-based policy and science communication. Proven record of designing and publishing interdisciplinary water research on climate change adaptation and resilience. Specialization in mountain hydrology and agricultural water management. Independent selfstarter who thrives working on inclusive and collaborative teams that uplift all members.

| EDUCATI | |
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| EDUCATIO | |
| 2022 | Ph.D. Hydrogeology, University of Nevada Reno, Reno, NV Graduate Dean's Fellowship—1 <i>of</i> 5 for all incoming graduate students, Babbitt Fellow A socio-hydrologic assessment of mountain water supply vulnerability to changing snowmelt, Dr. Adrian Harpold |
| 2016 | M.S. Water Resources, University of Wyoming, Laramie, WY Graduate Merit Fellow, Mary Mead Fellowship for Women in Agriculture, Outstanding MS Determination of evapotranspiration and return flow in a semi-arid agricultural system, Dr. Scott Miller |
| 2010 | B.A. Environmental History & English Literature, Stanford University, Stanford, CA Phi Beta Kappa, NCAA Division 1 Athlete, Undergraduate Fellow Stanford Humanities Center |
| EXPERIEN | |
| 2023- | Post-Doctoral Scholar, Desert Research Institute Division of Hydrologic Sciences |
| | Lead design of decision-making support tool for climate adaptation in agriculture Economic analysis of demand management in irrigated agriculture Liaise between hydrology subgroup and applied economics on a \$5 million USDA grant |
| 2019-2022 | PhD Candidate, Nevada Mountain Ecohydrology Lab |
| | Published on snow and streamflow using large-scale models and gridded data Published on statistical tool for uncertainty assessment using large-scale models and gridded data, produced new data product Designed resilience assessment for adaption in irrigated agriculture in western US |
| 2016-2019 | Research Analyst, Stanford University Woods Institute for the Environment Performed legal research on environmental water transactions Conducted technical, economic, and legal research on groundwater management in CA Co-developed and implemented an assessment of ecosystem services in the western US Published financial risk assessment of green infrastructure in major global cities |
| 2013-2016 | Research Assistant, Wyoming Center for Environmental Hydrology and Geophysics Published 3-year study on agricultural return flows using hydrologic and geophysical data Oversaw communication about research and results with diverse stakeholders |

- Designed, executed, and managed data gathering and analysis with multiple partners
- Led and mentored a team of technicians in a remote location over multiple field seasons

| 2011-2013 | Junior Environmental Specialist, Apache Corporation |
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- Co-led corporate sustainability report, designed water use reporting for investors and shareholders
- Led corporate environmental affairs in Argentina, Gulf Coast, Permian Basin, and Egypt
- Coordinated environmental reporting for OPIC and MIGA

2011, 2013

- Wildland Firefighter, Bighorn National Forest
- Member of Blacktooth Fire Use Module (2013)
- Member of Engine Crew (2011)

LEADERSHIP& SERVICE

Board of Directors: Greater Yellowstone Coalition • Plank Stewardship Initiative

Reviewer Services: Water Resources Research • Journal of Environmental Management • Science of the Total Environment • Agricultural Water Management • Journal of Sustainable Finance and Investment

| AWARDS& | | |
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| AFFILIATION | | |
| 2022 | Outstanding Student Paper, University of Nevada Reno, Graduate Program in Hydrologic Sciences | |
| 2021-2022 | Babbitt Fellow, Lincoln Institute of Land Policy, (\$10,000) | |
| 2020-2021 | Jerry & Betty Wilson Scholarship, University of Nevada Reno (\$4,000) | |
| 2020 | Outstanding PhD Student, University of Nevada Reno, GPHS | |
| 2021 | 3 Minute Thesis (3MT) Competition, 3rd place, University of Nevada Reno, (\$750) | |
| 2019 | Graduate Dean's Fellow, University of Nevada Reno (\$40,000) *First awardee for Graduate Program in Hydrologic Sciences | |
| 2016 | Outstanding MS Student, University of Wyoming, College of Agriculture | |
| 2015-2016 | Mary Mead Fellowship for Women in Agriculture, University of Wyoming, (\$2,000) | |
| 2013-2015 | Graduate Merit Fellowship, University of Wyoming, (\$13,000) | |
| 2010 | Phi Beta Kappa (Top 10% of graduating class), Stanford University | |
| 2010 | Finalist, Hoefer Prize for Excellence in Undergraduate Writing, Stanford University | |
| 2010 | Awardee, Bill Lane Center for the American West, Stanford University (\$7,000) | |
| 2009-2010 | Undergraduate Fellowship, Stanford Humanities Center | |
| 2009-2010 | Athletic Scholarship, Stanford University, Athletics Department | |
| 2007-08, 2010 | Student-Athlete Award, Stanford University, Athletics Department | |
| 2007-08, 2010 | Division 1 Athlete, National Collegiate Athletic Association | |

SKILLS& TRAINING

- Computational modeling & climate data processing
- Big data management & organization
- Hydrological field instrumentation
- Programming in Matlab, R, Python
- Spatial analysis in Google Earth Engine, ArcGIS
- Interdisciplinary research
- Stakeholder outreach & communication
- Public & investor relations
- Scientific communication
- Data visualization

COURSEWORK

Advanced Natural Resources Economics • Advanced Surface Water Hydrology • Bayesian Hierarchical Modeling • Differential Equations • Linear Algebra • Elements of Research Computing • Engineering & Environmental Geophysics • Geostatistics • Groundwater Hydraulics • Hydrogeophysics • Hydrologic Fluid Dynamics • Modeling Flow & Contaminant Transport • Soil Physics • Spatial Hydrology • Water Quality Analysis • Wildland Hydrology • Geographic Information Systems in Water Resources • Global Change, Crop Production & Impacts on Hydrology • Hydrology & Policy: Actions, Implications, and Solutions

RELEVANT TRAINING

Rosgen Stream Restoration • Multiple National Wildfire Coordinating Group trainings • WRF-Hydro • SWAT

SELECTED PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

| In Prep | [9] Gordon, B. L., Boisrame, G. F., Ajami, N.K., Carroll, R. W., Leonard, B., Albano, C.M., Mizukami, N., Koebele, E.A., Andrade-Rodriguez, M.A., & Harpold, A. A. Water Management Can Reduce Agricultural Vulnerability to Decreasing Snowpack. | |
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| Submitted | [8] Gordon, B. L., Koebele, E.A., Rego, J.J., Harpold, A. A., & Ajami, N.K. Improving Water Vulnerability Assessments for Rapidly Changing Hydrologic and Social Conditions | |
| 2022 | [7] Gordon, B. L., Brooks, P. D., Krogh, S. A., Boisrame, G. F., Carroll, R. W., McNamara, J. P., & Harpold, A. A. (2022). Why does snowmelt-driven streamflow response to warming vary? A data-driven review and predictive framework. Environmental Research Letters. | |
| 2022 | [6] Gordon, B. L., Crow, W. T., Konings, A. G., Dralle, D. N., & Harpold, A. A. (2022). Can We Use the Water Budget to Infer Upland Catchment Behavior? The Role of Data Set Error Estimation and Interbasin Groundwater Flow. Water Resources Research, 58(9) | |
| 2021 | [5] Krogh, S. A., Scaff, L., Sterle, G., Kirchner, J., Gordon, B ., Harpold, A. (2021). Diel streamflow cycles suggest more sensitive snowmelt-driven streamflow to climate change than land surface modeling. Hydrology and Earth System Sciences Discussions, 1-41. | |
| 2021 | [4] Claes, N., Paige, G. B., Gordon, B. L., Parsekian, A. D., Miller, S. N. (2021). Hydrologic modeling of reach scale fluxes from flood irrigated fields. Journal of Hydrology, 598, 126254. | |
| 2020 | [3] Gordon, B.L., Paige, G.B., Miller, S.N., Claes, N., Parsekian, A.D. (2020). Field scale quantification indicates potential for variability in return flows from flood irrigation in the high-altitude western US. Agricultural water management, 232, 106062. | |
| 2019 | [2] Gordon, B. L., Kowal, V., Khadka, A., Chaplin-Kramer, R., Roath, R., & Bryant, B. P. (2019). Existing accessible modeling tools offer limited support to evaluation of impact investment in rangeland ecosystem services. Frontiers in Sustainable Food Systems, 3, 77. | |
| 2018 | [1] Gordon, B. L., Quesnel, K. J., Abs, R., & Ajami, N. K. (2018). A case-study based framework for assessing the multi-sector performance of green infrastructure. Journal of environmental management, 223, 371-384. | |
| REPORTS & BRIEFS FOR POLICYMAKERS | | |

- 2018 Conrad, C., Gordon, B.L., Moran, T.A., Blomquist, W., Martinez, J., Szeptykci, L., (2018) California's new landscape for groundwater governance
- **2018** Szeptycki, L., Pilz, D., O'Connor, R., & **Gordon, B**. (2018). Environmental Water Transactions in the Colorado River Basin: A Closer Look.

POPULAR MEDIA & BLOGS

- **2017 Gordon, B.** "Why We Can't Just Suck It Up: The Challenges of Groundwater Recharge in California." Water in the West Insight blog.
- **2017 Gordon, B.** "Is CA's Drought Over? We're Asking the Wrong Question." Water in the West Insight blog.