KATHRYN B. NEWHART

kathryn.newhart@oregonstate.edu

PROFESSIONAL EXPERIENCE

Oregon State University — June 2024 - Present
Assistant Professor of Environmental Engineering — *Corvallis, OR*

United States Military Academy — June 2021 - June 2024
Assistant Professor of Environmental Engineering — *West Point, NY*

Metro Wastewater Reclamation District — March 2020 - May 2021
Technology & Innovation Engineer Associate — *Denver, CO*

AFFILIATED INSTITUTIONS

Baylor University — 2023 - Present
Graduate School, Department of Statistical Science — *Waco, TX*

Colorado School of Mines — 2020 - Present
Department of Civil and Environmental Engineering — *Golden, CO*

TEACHING

Institution	*Course*	*Title (Credit Hours)*	*Semesters*
OSU	ENVE 415[1]	Environmental Engineering Laboratory (3)	1
USMA	EV201[1]	Introduction to Environmental Engineering (3)	2
USMA	EV350[2]	Environmental Engineering Technologies (3)	1
USMA	EV401[1]	Physical and Chemical Treatment (3.5)	3
USMA	EV450[2]	Environmental Engineering for Sustainable Development (3)	3
USMA	EV490/491[2]	Environmental Engineering Design (Capstone) (3)	5
USMA	XE365[3]	Advanced Experimental Methods & Data Processing (3)	1
RRCC	WQM42[1]	Water Data Management & Analysis (3)	1
CSM	CEE 470/570[3]	Unit Processes for Water and Wastewater Treatment (3)	3
CSM	CEE 471/571[3]	Advanced Water Treatment and Reclamation (3)	1
CSM	CEE 330[3]	Field Session for Environmental Engineering (3)	3

[1] Course director, [2] Instructor, [3] TA / Guest lecturer

EDUCATION

Doctor of Philosophy — 2018 - 2020
Civil and Environmental Engineering — *Colorado School of Mines, Golden, CO*

· Dissertation: "Data-driven process control of municipal wastewater treatment"
· Advisors: Prof. Tzahi Cath and Prof. Amanda Hering (Baylor University)

Master of Science — 2016 - 2018
Civil and Environmental Engineering — *Colorado School of Mines, Golden, CO*

Bachelor of Science — 2013 - 2016
Environmental Engineering — *Colorado School of Mines, Golden, CO*

PUBLICATIONS

13. Black, A., **Newhart, K.**, Linvill, C., Pytlar, A., Galaitsi, S., Fairfield;, C., Wait, M., Bennett, E., Butkus, M., "A linguistic analysis of energy terminology in the wastewater literature," *Water Science & Technology*, 2025, *in press.*

12. Grimm, T.R., **Newhart, K.B.** and Hering, A.S.,"Nonparametric Threshold Estimation of Autocorrelated Statistics in Multivariate Statistical Process Monitoring," *Journal of Chemometrics*, 2025, 39, 2, DOI: 10.1002/cem.70004

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3. **Newhart, K.B.**., Holloway, R.W., Hering, A.S., Cath, T.Y., "Data-driven performance analyses of wastewater treatment plants: A review," *Water Research*, 2019, 157, 498-513

2. Odom, G.J., **Newhart, K.B.**, Cath, T.Y., Hering, A.S., "Multi-state multivariate statistical process control," *Applied Stochastic Models in Business and Industry*, 2018, 34(6), 880-892

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RESEARCH

"Digital Water for DOD Installations: Demonstration and Deployment Guidance for Leveraging Big Data at Water and Wastewater Utilities," U.S. Department of Defense, Environmental Security Technology Certification Program., Awarded 2025. Total award $1,010,064. OSU award $589,914. Principal Investigator.

"Increasing Installation Energy Resilience through Energy Producing Resource Recovery Facilities," U.S. Department of Defense, Environmental Security Technology Certification Program., Awarded 2025. Total award $1,566,825. OSU award $25,050. co-Principal Investigator.

"Unlocking the Nationwide Potential of Water Reuse," U.S. Environmental Protection Agency, National Priorities: Water Innovation, Science, and Engagement to Advance Water Reuse. EPA-G2021-ORD&EI. Awarded 2023. Total award $4,000,000. Research Partner at West Point.

"Data-driven Fault Detection and Process Control for Potable Reuse with Reverse Osmosis," National Alliance for Water Innovation, Autonomous Water and Precision Separations. NAWI-2-2021. Awarded 2022. Total award $1,034,000. co-Principal Investigator.

"Crossing the Finish Line: Integration of Data-Driven Process Control for Maximization of Energy and Resource Efficiency in Advanced Water Resource Recovery Facilities," U.S. Department of Energy, Research and Development for Advanced Water Resource Recovery Systems. DE-FOA-0002336. Awarded 2021. Total award $2,400,000. co-Principal Investigator.

"Advancing Energy Resilience through Demonstrating, Characterizing, and Modeling Anaerobic Co-digestion of Organic Wastes for Widespread Implementation on DOD Installations." U.S. Department of Defense, Environmental Security Technology Certification Program. Total award $925,000. co-Principal Investigator.

WORKSHOPS

"Defining Pathways for Solving Environmental Challenges using Machine Learning" *AEESP Annual Conference*, 2023, Organizer

"A Convergence of WRF Machine Learning Based Controller Implementation and Research" *WEF/IWA Innovations in Process Engineering*, June 6, 2023, Facilitator and presenter

"Visualization, Analysis, and Modeling in R for the Water Professional" MoWaTER PRO: Data Science Workshop, 2021 & 2022, Organizer

"Machine Learning in the Water Industry" *WEF/IWA Innovations in Process Engineering*, June 8, 2021, Organizer

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"Data Research Advances Water Industry," *NSF Mid-scale Research Infrastructure Workshop for Intelligent Water Systems*, August 25, 2020, Virtual, Facilitator and presenter

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"Digital Water: Leveraging Statistical and Machine Learning in Water Treatment Research," Univertsity of Michigan, July 2024

"Machine Learning to the Rescue: Mining data to optimize water reclamation disinfection," Water Environment Federation, June 13, 2024, Webcast, Presenter

"Process Modeling and Machine Learning – Selecting the Right Tool(s) for Troubleshooting and Optimization," Water Environment Federation, November 30, 2023, Webcast, Presenter

"Artificial Intelligence in the Water Industry" Orange County Water District, August 1, 2023, Webcast, Presenter, URL

"Understanding and Embracing Machine Learning, Artificial Intelligence and Predictive Analytics" Metropolitan Water Reclamation District of Greater Chicago, June 30, 2023, Seminar

"A Hypothetical – Potable Reuse Moves Towards Artificial Intelligence," *36th Annual WateReuse Symposium*, March 1, 2021, Panelist

SELECT CONFERENCE PRESENTATIONS

"Prediction of Post-Secondary E. coli for Disinfection Control: Application of statistical and machine learning algorithms." WEF/IWA Innovations in Process Engineering, June 9, 2023, Portland, OR

"Predictive Control in Wastewater Treatment Facilities Using Simple Statistical Models," South Platte Coalition for Urban River Evaluation: Confluence at the Confluence, Oct 15, 2019, Englewood, CO

"Energy Reduction in Municipal Wastewater Treatment," Colorado Industrial Pretreatment Coordinators Association Fall Conference, Oct 18, 2019, Black Hawk, CO

"Predictive Modeling and Performance Assessment of Ammonia-Based Aeration Control," Water Environment Federation Technical Exhibition and Conference (WEFTEC), Sept 23, 2019, Chicago, IL

"A Utility Perspective: Practical Considerations of Operating and Advancing Ammonia-Based Aeration Control," July 10, 2019, RMWEA Innovation Seminar, Denver, CO

"Fault Detection Using PCA at a Municipal Wastewater Treatment Facility," July 30, 2019, Joint Statistical Meeting, Denver, CO

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"Use of Principal Component Analysis for Early-Fault Detection in a Pilot-Scale Biological Wastewater Treatment System," Quality and Productivity Research Conference, June 14, 2017, Storrs, CT

NON-REFEREED PUBLICATIONS

Weintraut, Z., **Newhart, K.**, Thompson, K., Roostaei, J., "Are you ready for big data? A checklist for readiness for data analytics in water utilities," *Journal AWWA*, 2022, 114, 10, 78-82

Newhart, K.B. & Avila, I., "NDMA: relevance and regulatory status for drinking water facilities," *Rocky Mountain Water*, November 2017

LEADERSHIP

Chair, National Water Research Institute (NWRI) Independent Expert Panel, supporting *Data-Driven Fault Detection and Process Control for Potable Reuse with Reverse Osmosis Project*

President, NSF ReNUWIt Engineering Research Center Student Leadership Committee, 2018 – 2019

President, CSM Campus Chapter of the Rocky Mountain Section of the American Water Works Association (RMSAWWA)/Rocky Mountain Water Environment Association (RMWEA), 2018 – 2019

Co-Chair, 15th Annual RMSAWWA/RMWEA Joint Student Conference, 2018

SERVICE

Institution (USMA)

- Department representative, Admissions Committee, September 2023– present
- Coordinator, Environmental Program Faculty Seminar Series, September 2023– present
- Faculty representative, Cycling (club), September 2023 – present
- Faculty representative, Women's Tennis (NCAA Division I), January 2022 – present
- Department representative, Superintendent's Civilian Faculty Advisory Council, January 2022 – May 2022

Professional

- Early Career Board, ACS Environmental Science & Technology Engineering, January 2024 – present
- Editorial Advisory Team, ACS Environmental Science & Technology Water, June 2022 – present
- Referee, ACS Environmental Science & Technology Engineering; Environmental Science: Water Research & Technology; Resources, Conservation & Recycling; Water Environment Research; Water Research (IWA); Journal of Water & Health
- Technology Reviewer, Water Research Foundation TechLink, January 2022 – present
- Member, AWWA Water Science & Research Division, Information Management & Technology, 2021 – present

IN THE NEWS

Newhart, K. B., Marks, C., Rauch-Williams, T., Cath, T. Y., Hering, A. S. (2020) "Boulder tests its waters with predictive aeration control," Advances in Water Research, 30: 25–28. URL.

AWARDS

ASEE Environmental Engineering Division Early Career Award, 2022

ACS Publications Peer Reviewer, Certificate of Recognition, 2022

WEF/WRF LIFT Intelligent Water System Challenge, 1st place, 2019

AWRA-Colorado Rich Herbert Memorial Scholarship, 2019

CERTIFICATIONS

Wastewater Operator, Class D, Colorado, 2016-2024

Fundamentals of Engineering (FE), Environmental, Colorado, NCEES ID 16-475-7

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