



Alexandria Boehm

Richard and Rhoda Goldman Professor of Environmental Studies, Professor of Oceans and Senior Fellow at the Woods Institute for the Environment
Civil and Environmental Engineering

CONTACT INFORMATION

- **Administrator**

Carine Sauquet - Administrative Associate

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Tel (650) 725-2383

Bio

BIO

I am interested in pathogens in the environment including their sources, fate, and transport in natural and engineered systems. I am interested in understanding of how pathogens are transmitted to humans through contact with water, feces, and contaminated surfaces. My research is focused on key problems in both developed and developing countries with the overarching goal of designing and testing novel interventions and technologies for reducing the burden of disease.

I am also interested broadly in coastal water quality where my work addresses the sources, transformation, transport, and ecology of biocolloids - specifically fecal indicator organisms, DNA, pathogens, and phytoplankton - as well as sources and fate of nitrogen. This knowledge is crucial to formulating new management policies and engineering practices that protect human and ecosystem health at the coastal margins.

ACADEMIC APPOINTMENTS

- Professor, Civil and Environmental Engineering
- Senior Fellow, Stanford Woods Institute for the Environment
- Professor, Oceans
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Senior Fellow, Stanford Woods Institute for the Environment

ADMINISTRATIVE APPOINTMENTS

- Faculty Fellow, Center for Innovation in Global Health, (2015- present)

HONORS AND AWARDS

- Open Science Champion Prize, Stanford Data Science Center for Open and REproducible Science (CORES) (2024)
- Elected to the National Academy of Engineering, The National Academies (2024)
- Huber Prize, ASCE (2016)

- Participant in National Academy of Engineers' Frontiers of Engineering Symposium, National Academy of Engineers (2008)
- CAREER Award, National Science Foundation (2007)
- Visiting Scholar, Pacific Rim Center for Oceans and Human Health (2007)
- Excellence in Teaching Award, UC Irvine (2001)
- Faculty Fellow Award, UC Irvine (2000-2002)
- Chair of West Coast Panel on Ocean Acidification and Hypoxia, States of California, Oregon, Washington, Province of British Columbia (2013-2016)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Affiliate, Stanford Center for Human and Planetary Health (2025 - present)

PROFESSIONAL EDUCATION

- BS, California Institute of Technology , Engineering & Applied Science (1996)
- MS, UC Irvine , Environmental Engineering (1997)
- PhD, UC Irvine (2000)

COMMUNITY AND INTERNATIONAL WORK

- Pathogen contamination in household environments, Bangladesh

LINKS

- <https://web.stanford.edu/~aboehm>: <https://web.stanford.edu/~aboehm>

Research & Scholarship

CLINICAL TRIALS

- MET2, Recruiting

PROJECTS

- Microbial Source Tracking in Developing Countries - Stanford University
- Coastal Water Quality - Citizen science

Teaching

COURSES

2025-26

- California Coast: Science, Policy and Law: LAW 2510 (Spr)
- California Coast: Science, Policy, and Law: CEE 175A, CEE 275A, EBS 175, EBS 275 (Spr)
- Clean Water Now! Urban Water Conflicts: CEE 41Q (Win)
- Environmental Health Microbiology Lab: CEE 274P (Aut)

2024-25

- Clean Water Now! Urban Water Conflicts: CEE 41Q (Win)
- Environmental Health Microbiology Lab: CEE 274P (Aut)

2023-24

- California Coast: Science, Policy and Law: LAW 2510 (Spr)
- California Coast: Science, Policy, and Law: CEE 175A, CEE 275A (Spr)

- Environmental Health Microbiology Lab: CEE 274P (Aut)

2022-23

- Environmental Health Microbiology Lab: CEE 274P (Aut)
- SARS-CoV-2 in the Environment: CEE 371C (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Jessica Bullington, Liam Herndon, Marlena Hinkle

Postdoctoral Faculty Sponsor

Sheena Conforti, Alex Jaffe, Meghan Shea

Master's Program Advisor

Bei Jiang

Doctoral (Program)

Sally Jong, Laura Kubiato, Camila Van Oost, Yue Zhang, Gang Zheng

Publications

PUBLICATIONS

- **The Exposome at a Crossroads: From Measurement to Action.** *Environmental science & technology*
Gago-Ferrero, P., Boehm, A. B., Hsu-Kim, H., Li, X. D., MacDonald Gibson, J., Vrijheid, M., Wang, B., Zimmerman, J. B.
2026; 60 (19): 13747-13748
- **The Human Exposome: Integrating the Environment, Human Health, and Society for the Next 60 years.** *Environmental science & technology*
Gago-Ferrero, P., Boehm, A. B., Hsu-Kim, H., Li, X. D., Gibson, J. M., Vrijheid, M., Wang, B., Zimmerman, J.
2026
- **Enterovirus D68 in United States wastewater: a longitudinal surveillance study integrating climatic, demographic, and clinical data.** *Lancet regional health. Americas*
Conforti, S., Zulli, A., Boehm, A. B.
2026; 57: 101446
- **Persistence of Fecal Source Tracking Markers Human Fecal-Associated Bacteroidales (HF183), Cross-Assembly Phage-like Marker (crAssphage), Pepper Mild Mottle Virus (PMMoV), and Tomato Brown Rugose Fruit Virus (ToBRFV) in Coastal Waters** *ACS ES&T WATER*
Lowry, S. A., Zhang, Y., Boehm, A. B.
2026
- **Sunlight Inactivation of Influenza A Virus and Bacteriophages on an Acrylic Surface.** *Environmental science & technology*
Zhang, M., Anderson, C. E., Zheng, G., Blish, C. A., Boehm, A. B.
2026
- **Assessing normalization methods in wastewater based epidemiology: a systematic review** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*
Ahmed, T., Philo, S. E., Boehm, A. B., Halden, R. U., Bibby, K., Vela, J.
2026
- **Wastewater surveillance reveals patterns of antibiotic resistance across the United States.** *Nature communications*
Kim, S., Zulli, A., Chan, E. M., Duong, D., Linfield, R. Y., McCormack, C. E., White, B. J., Wolfe, M. K., Boehm, A. B., Pickering, A. J.
2026
- **Implementation of Wastewater-Based Epidemiology in a Northern California Acute Care Hospital: A Pilot Study, June-July 2024.** *The Journal of hospital infection*

- Rodriguez-Nava, G., Zulli, A., Grieshop, M. P., Viana-Cardenas, E. P., Jong, S., Miranti, E., Jiang, M., Ayala, A., Sampson, M., Bhatt, A. S., Boehm, A. B., Salinas, J. L.
2026
- **Early Detection and Surveillance of the SARS-CoV-2 Variant BA.3.2 - Worldwide, November 2024-February 2026.** *MMWR. Morbidity and mortality weekly report*
Shakya, M., Ma, K. C., Hughes, L. J., Smith, C., Atherton, L. J., Boehm, A. B., Cook, P. W., Cornforth, D. M., Gardner, M., Goraichuk, I. V., Harcourt, J. L., Hicks, H., Johnson, et al
2026; 75 (10): 130-137
 - **Richard "Dick" Luthy: Researcher, Teacher, Mentor, and Friend (1945-2025).** *Environmental science & technology*
Boehm, A.
2026; 60 (10): 7603-7604
 - **Nationwide wastewater sequencing surveillance of SARS-CoV-2 lineages: validation against clinical data across 28 U.S. states.** *PeerJ*
Zulli, A., White, B., Duong, D., Shelden, B., Chan-Herur, V., Wolfe, M., Boehm, A. B.
2026; 14: e20941
 - **Rapid Solar Photoinactivation of Influenza Virus and Phi6 in Colored Surface Water.** *Environmental science & technology*
Anderson, C. E., Zhang, M., Zheng, G., Xu, L., Mitch, W. A., McNeill, K., Boehm, A. B.
2026
 - **Pathogen nucleic acids data in wastewater solids from 147 treatment plants in the United States: 2024-2025 DATA IN BRIEF**
Boehm, A. B., Wolfe, M. K., Bidwell, A. L., Zulli, A., White, B. J., Shelden, B., Duong, D.
2026; 65: 112503
 - **Flush with data: harnessing emergency department wastewater as an innovative approach for surveillance of infectious diseases.** *American journal of epidemiology*
Renfro, Z. T., Zulli, A., Parsonnet, J., Boehm, A., Bennett, C. L.
2026
 - **<i>ES&T</i> at 60: Science, Community, and the Facets of Impact ENVIRONMENTAL SCIENCE & TECHNOLOGY**
Zimmerman, J. B., Boehm, A. B., Cousins, I. T., Dachs, J., Eckelman, M. J., Fenner, K., Gago-Ferrero, P., Gardea-Torresdey, J. L., Gibson, J., Hollender, J., Hong, P., Hsu-Kim, H., Leusch, et al
2026; 60 (1): 1-2
 - **Pilot ED Wastewater Surveillance During the 2024-2025 Respiratory Virus Season.** *JAMA network open*
Renfro, Z., Zulli, A., Levy, V., Nawy, R., Mercado, A., Jong, S., Salinas, J. L., Eastwood, H., Below, C., Boehm, A. B., Parsonnet, J., Bennett, C. L.
2026; 9 (1): e2555023
 - **Occurrence of novel human tomato brown rugose fruit virus and conventional microbial source tracking genetic markers in a Hawaiian coupled stream-beach system.** *Environmental science. Processes & impacts*
Lowry, S. A., Diedrich, A., Lum, E., Shanks, O. C., Boehm, A. B.
2025
 - **Charting the future of wastewater-based epidemiology for vector-borne diseases: opportunities, challenges, and climate-driven needs ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY**
Ahmed, T., Zulli, A., Ishtiaq, F., Wong, J., de Araujo, J., Kuhn, K. G., Boehm, A. B., Halden, R. U., Bibby, K., Vela, J.
2025
 - **Importance of a heat snap in RT-PCR quantification of rotavirus double-stranded RNA in wastewater.** *Environmental science : water research & technology*
Kang, S., Wettlaufer, A., de Korne-Elenbaas, J., Niwagaba, C. B., Strande, L., Duong, D., Shelden, B., Julian, T. R., Boehm, A. B.
2025
 - **Wastewater concentrations of rotavirus RNA are associated with infection and vaccination metrics in the USA NPJ VIRUSES**
Chan, E. M. G., Zulli, A., Boehm, A. B.
2025; 3 (1): 75
 - **Investigating cement-based surfaces as a sustainable flooring solution to improve Ascaris Suum egg removal and inactivation in low-resource settings.** *PLoS neglected tropical diseases*

- Anderson, C. E., Hanif, S., Hernandez, J., Crider, Y., Lepech, M., Billington, S. L., Boehm, A. B., Benjamin-Chung, J.
2025; 19 (10): e0012919
- **Detection of Monkeypox Virus Clade Ib DNA in Wastewater Solids at Wastewater Treatment Plants, United States** *EMERGING INFECTIOUS DISEASES*
Boehm, A. B., Wolfe, M. K., Bidwell, A. L., White, B. J., Shelden, B., Duong, D.
2025; 31 (10): 1984-1987
 - **Corrigendum to "Systematic review and meta-analysis of enteric virus shedding in human excretions" [eBioMedicine, Volume 119, September 2025, 105878].** *EBioMedicine*
Zheng, G., Chan, E. M., Boehm, A. B.
2025; 119: 105906
 - **Systematic review and meta-analysis of enteric virus shedding in human excretions.** *EBioMedicine*
Zheng, G., Chan, E. M., Boehm, A. B.
2025; 119: 105878
 - **Detection of Hemagglutinin H5 Influenza A Virus RNA and Model of Potential Inputs in an Urban California Sewershed.** *Environmental science & technology*
Paulos, A. P., Hilton, S. P., Shelden, B., Duong, D., Boehm, A. B., Wolfe, M. K.
2025
 - **West Nile Virus (Orthoflavivirus nilense) RNA concentrations in wastewater solids at five wastewater treatment plants in the United States.** *PeerJ*
Zulli, A., Duong, D., Shelden, B., Bidwell, A., Wolfe, M. K., White, B., Boehm, A. B.
2025; 13: e19748
 - **Community Infections Linked with Parvovirus B19 Genomic DNA in Wastewater, Texas, USA, 2023-2024.** *Emerging infectious diseases*
Zulli, A., Linfield, R. Y., Duong, D., Hughes, B., Boehm, A. B.
2025; 31 (7): 1442-1445
 - **Survey of pathogens and human fecal markers in stormwater across a highly populated urban region.** *Environmental science. Processes & impacts*
Steele, J. A., Zimmer-Faust, A. G., Clerkin, T. J., Gonzalez-Fernandez, A., Lowry, S. A., Blackwood, A. D., Raygoza, K., Langlois, K., Boehm, A. B., Noble, R. T., Griffith, J. F., Schiff, K. C.
2025
 - **Apollitical Science ENVIRONMENTAL SCIENCE & TECHNOLOGY**
Zimmerman, J., Lowry, G., Rosario-Ortiz, F., Westerhoff, P., Alessi, D., Alvarez, P., Boehm, A., Cousins, I., Dachs, J., Eckelman, M., El Haddad, I., Gago-Ferrero, P., Gardea-Torresdey, et al
2025; 59 (13): 6355-6356
 - **Wastewater surveillance reveals patterns of antibiotic resistance across the United States.** *medRxiv : the preprint server for health sciences*
Kim, S., Zulli, A., Chan, E. M., Duong, D., Linfield, R. Y., McCormack, C., White, B. J., Wolfe, M. K., Boehm, A. B., Pickering, A. J.
2025
 - **Evaluating the survival and removal of Escherichia coli from surfaces made with traditional and sustainable cement-based materials in field-relevant conditions.** *Applied and environmental microbiology*
Anderson, C. E., Hernandez, J., Hanif, S., Owens, L., Crider, Y., Billington, S. L., Lepech, M., Boehm, A. B., Benjamin-Chung, J.
2025: e0213124
 - **Simulated gastrointestinal risk from recreational exposure to Southern California stormwater and relationship to human-associated Bacteroidales marker HF183.** *Environmental science. Processes & impacts*
Lowry, S. A., Steele, J. A., Griffith, J. F., Schiff, K. C., Boehm, A. B.
2025
 - **Respiratory Virus Season Surveillance in the United States Using Wastewater Metrics, 2023-2024.** *ACS ES&T water*
Chan, E. M., Boehm, A. B.
2025; 5 (2): 985-992
 - **Wastewater for public health: timely, sensitive, and reliable SARS-CoV-2 omicron variant monitoring in California** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*

- Burnor, E., Yu, A. T., Wolfe, M. K., Kantor, R. S., Leon, T. M., Ravuri, S., Rane, M. S., Panditrao, M. V., Naughton, C., Rabe, A., Harris-Lovett, S., Abram, A., Borthwick, et al
2025
- **Respiratory Virus Season Surveillance in the United States Using Wastewater Metrics, 2023-2024** *ACS ES&T WATER*
Chan, E. M. G., Boehm, A. B.
2025
 - **Bacterial Wastewater-Based Epidemiology Using Surface-Enhanced Raman Spectroscopy and Machine Learning.** *Nano letters*
Herndon, L. K., Zhang, Y., Safir, F., Ogunlade, B., Balch, H. B., Boehm, A. B., Dionne, J. A.
2025
 - **Spatiotemporal Variability of the Pepper Mild Mottle Virus Biomarker in Wastewater.** *ACS ES&T water*
Rosengart, A. L., Bidwell, A. L., Wolfe, M. K., Boehm, A. B., Townes, F. W.
2025; 5 (1): 341-350
 - **Author Correction: Human pathogen nucleic acids in wastewater solids from 191 wastewater treatment plants in the United States.** *Scientific data*
Boehm, A. B., Wolfe, M. K., Bidwell, A. L., Zulli, A., Chan-Herur, V., White, B. J., Shelden, B., Duong, D.
2024; 11 (1): 1410
 - **Spatiotemporal Variability of the Pepper Mild Mottle Virus Biomarker in Wastewater** *ACS ES&T WATER*
Rosengart, A. L., Bidwell, A. L., Wolfe, M. K., Boehm, A. B., Townes, F.
2024
 - **Infectivity and Persistence of Influenza A Virus in Raw Milk** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*
Zulli, A., Zhang, M., Jong, S., Blish, C., Boehm, A. B.
2024
 - **Our Selections for the Best ES&T Letters Papers in 2023** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*
Brooks, B. W., Arnold, W. A., Boehm, A. B., Haddad, I., Ikeda, A., Martin, J. W., Mihelcic, J. R., Mills, M., Ren, Z., Schlenk, D., Huahong, S., Wang, S., Wang, et al
2024; 11 (12): 1260-1261
 - **Estimating effective reproduction numbers using wastewater data from multiple sewersheds for SARS-CoV-2 in California counties.** *Epidemics*
Ravuri, S., Burnor, E., Routledge, I., Linton, N. M., Thakur, M., Boehm, A., Wolfe, M., Bischel, H. N., Naughton, C. C., Yu, A. T., White, L. A., León, T. M.
2024; 50: 100803
 - **Microbial Community of a Sandy Beach Subterranean Estuary is Spatially Heterogeneous and Impacted by Winter Waves.** *Environmental microbiology*
Bullington, J. A., Langenfeld, K., Phaneuf, J. R., Boehm, A. B., Francis, C. A.
2024; 26 (12): e70009
 - **SARS-CoV-2 surveillance in US wastewater: Leading indicators and data variability analysis in 2023-2024.** *PLoS one*
Schenk, H., Rauch, W., Zulli, A., Boehm, A. B.
2024; 19 (11): e0313927
 - **Detection and quantification of human immunodeficiency virus-1 (HIV-1) total nucleic acids in wastewater settled solids from two California communities.** *Applied and environmental microbiology*
Wolfe, M. K., Varkila, M. R., Zulli, A., Parsonnet, J., Boehm, A. B.
2024: e0147724
 - **Wastewater Surveillance for Norovirus, California, USA.** *Emerging infectious diseases*
Yu, A. T., Burnor, E., Rabe, A., Rutschmann, S., Wolfe, M. K., Burmester, J., Pan, C., Chen, A., Guevara, H., Morales, C., Wadford, D. A., Boehm, A. B., Vugia, et al
2024; 30 (11): 2438-2441
 - **Universal microbial indicators provide surveillance of sewage contamination in harbours worldwide** *NATURE WATER*

- McLellan, S. L., Chariton, A., Codello, A., McClary-Gutierrez, J. S., Schussman, M. K., Marzinelli, E. M., O'Neil, J. M., Schott, E. J., Bowen, J. L., Vineis, J. H., Maignien, L., Lemonnier, C., Perennou, et al
2024; 2 (11): 1061-1070
- **Detection of Hepatovirus A (HAV) in wastewater indicates widespread national distribution and association with socioeconomic indicators of vulnerability.** *mSphere*
Zulli, A., Chan, E. M., Boehm, A. B.
2024: e0064524
 - **Environmental Machine Learning, Baseline Reporting, and Comprehensive Evaluation: The EMBRACE Checklist.** *Environmental science & technology*
Zhu, J. J., Boehm, A. B., Ren, Z. J.
2024
 - **Moving beyond Wastewater: Perspectives on Environmental Surveillance of Infectious Diseases for Public Health Action in Low-Resource Settings.** *Environment & health (Washington, D.C.)*
Delgado Vela, J., Philo, S. E., Brown, J., Taniuchi, M., Cantrell, M., Kossik, A., Ramaswamy, M., Ajjampur, S. S., Guerfali, F. Z., Holm, R. H., Meschke, J. S., Otero, M. C., Pickering, et al
2024; 2 (10): 684-687
 - **Human pathogen nucleic acids in wastewater solids from 191 wastewater treatment plants in the United States.** *Scientific data*
Boehm, A. B., Wolfe, M. K., Bidwell, A. L., Zulli, A., Chan-Herur, V., White, B. J., Shelden, B., Duong, D.
2024; 11 (1): 1141
 - **Call for Papers for a Special Issue on "Ocean Health"** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Dachs, J., Boehm, A., Sunderland, E., Deiner, K., Martin, J. W., Schlenk, D., Brooks, B.
2024; 58 (40): 17523
 - **Call for Papers for a Special Issue on "Ocean Health"** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*
Dachs, J., Boehm, A., Sunderland, E., Deiner, K., Martin, J. W., Schlenk, D., Brooks, B.
2024; 11 (10): 1016
 - **You can bring plankton to fecal indicator organisms, but you cannot make the plankton graze: particle contribution to E. coli and MS2 inactivation in surface waters.** *mSphere*
Kennedy, L. C., Mattis, A. M., Boehm, A. B.
2024: e0065624
 - **Persistence of respiratory, enteric, and fecal indicator viruses in fecal sludge from on-site sanitation in Dakar, Senegal** *JOURNAL OF WATER SANITATION AND HYGIENE FOR DEVELOPMENT*
Grijalva, L., Seck, A., Roldan-Hernandez, L., Graham, K. E., Boehm, A. B., Tarpeh, W. A.
2024
 - **Wastewater Surveillance for Influenza A Virus and H5 Subtype Concurrent with the Highly Pathogenic Avian Influenza A(H5N1) Virus Outbreak in Cattle and Poultry and Associated Human Cases - United States, May 12-July 13, 2024.** *MMWR. Morbidity and mortality weekly report*
Louis, S., Mark-Carew, M., Biggerstaff, M., Yoder, J., Boehm, A. B., Wolfe, M. K., Flood, M., Peters, S., Stobierski, M. G., Coyle, J., Leslie, M. T., Sinner, M., Nims, et al
2024; 73 (37): 804-809
 - **Prospective study of Candida auris nucleic acids in wastewater solids in 190 wastewater treatment plants in the United States suggests widespread occurrence.** *mBio*
Zulli, A., Chan, E. M., Shelden, B., Duong, D., Xu, X. S., White, B. J., Wolfe, M. K., Boehm, A. B.
2024: e0090824
 - **Spatial and temporal variation in respiratory syncytial virus (RSV) subtype RNA in wastewater and relation to clinical specimens.** *mSphere*
Zambrana, W., Huang, C., Solis, D., Sahoo, M. K., Pinsky, B. A., Boehm, A. B.
2024: e0022424
 - **Advances in Wastewater-Based Epidemiology in the ES&T Family of Journals.** *Environmental science & technology*
Julian, T. R., Boehm, A. B.
2024

- **Advances in Wastewater-Based Epidemiology in the <i>ES&T</i> Family of Journals** *ACS ES&T WATER*
Julian, T. R., Boehm, A. B.
2024
- **Advances in Wastewater-Based Epidemiology in the <i>ES&T</i> Family of Journals** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*
Julian, T. R., Boehm, A. B.
2024
- **Public health policy impact evaluation: A potential use case for longitudinal monitoring of viruses in wastewater at small geographic scales** *PLOS WATER*
Chan, E. M. G., Bidwell, A., Li, Z., Tilmans, S., Boehm, A. B.
2024; 3 (6)
- **Detection of Hemagglutinin H5 Influenza A Virus Sequence in Municipal Wastewater Solids at Wastewater Treatment Plants with Increases in Influenza A in Spring, 2024** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*
Wolfe, M. K., Duong, D., Shelden, B., Chan, E. M. G., Chan-Herur, V., Hilton, S., Paulos, A., Xu, X. S., Zulli, A., White, B. J., Boehm, A. B.
2024
- **Maximizing the Impact of Research Featuring Nucleic-Acid Sequencing Methods in Environmental Science & Technology and Environmental Science & Technology Letters.** *Environmental science & technology*
Boehm, A. B., Raskin, L., Alvarez, P., Hong, P.
2024; 58 (19): 8115-8116
- **Maximizing the Impact of Research Featuring Nucleic-Acid Sequencing Methods in <i>Environmental Science & Technology</i> and <i>Environmental Science & Technology Letters</i>** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*
Boehm, A. B., Raskin, L., Alvarez, P., Hong, P.
2024; 11 (5): 382-383
- **Solid-liquid partitioning of dengue, West Nile, Zika, hepatitis A, influenza A, and SARS-CoV-2 viruses in wastewater from across the USA** *ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY*
Roldan-Hernandez, L., Van Oost, C., Boehm, A. B.
2024
- **Observations of Respiratory Syncytial Virus (RSV) Nucleic Acids in Wastewater Solids Across the United States in the 2022-2023 Season: Relationships with RSV Infection Positivity and Hospitalization Rates.** *ACS ES&T water*
Zulli, A., Varkila, M. R., Parsonnet, J., Wolfe, M. K., Boehm, A. B.
2024; 4 (4): 1657-1667
- **A mixed-effects model to predict COVID-19 hospitalizations using wastewater surveillance** *JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING*
Daza-Torres, M. L., Montesinos-Lopez, J., Bischel, H. N., Naughton, C. C., Desai, A. N., Wolfe, M. K., Boehm, A. B., Nuno, M.
2024; 12 (2)
- **Persistence and free chlorine disinfection of human coronaviruses and their surrogates in water.** *Applied and environmental microbiology*
Zhang, M., Leong, M. W., Mitch, W. A., Blish, C. A., Boehm, A.
2024: e0005524
- **Persistence of human respiratory viral RNA in wastewater-settled solids.** *Applied and environmental microbiology*
Zhang, M., Roldan-Hernandez, L., Boehm, A.
2024: e0227223
- **Is detection of enteropathogens and human or animal faecal markers in the environment associated with subsequent child enteric infections and growth: an individual participant data meta-analysis.** *The Lancet. Global health*
Mertens, A., Arnold, B. F., Benjamin-Chung, J., Boehm, A. B., Brown, J., Capone, D., Clasen, T., Fuhrmeister, E. R., Grembi, J. A., Holcomb, D., Knee, J., Kwong, L. H., Lin, et al
2024; 12 (3): e433-e444
- **Environmental DNA metabarcoding differentiates between micro-habitats within the rocky intertidal** *ENVIRONMENTAL DNA*
Shea, M. M., Boehm, A. B.
2024; 6 (2)

- **Observations of Respiratory Syncytial Virus (RSV) Nucleic Acids in Wastewater Solids Across the United States in the 2022-2023 Season: Relationships with RSV Infection Positivity and Hospitalization Rates** *ACS ES&T WATER*
Zulli, A., Varkila, M. R. J., Parsonnet, J., Wolfe, M. K., Boehm, A. B.
2024
- **A retrospective longitudinal study of adenovirus group F, norovirus GI and GII, rotavirus, and enterovirus nucleic acids in wastewater solids at two wastewater treatment plants: solid-liquid partitioning and relation to clinical testing data.** *mSphere*
Boehm, A. B., Shelden, B., Duong, D., Banaei, N., White, B. J., Wolfe, M. K.
2024: e0073623
- **Strengthening the academic pipeline for underrepresented students via early exposure to graduate education** *Chem*
Fernandez, S., Anderson, C. E., Boehm, A. B., Congreve, D. N.
2024; 10 (6): 1609-1619
- **Wastewater surveillance for bacterial targets: current challenges and future goals.** *Applied and environmental microbiology*
Philo, S. E., De Leon, K. B., Noble, R. T., Zhou, N. A., Alghafri, R., Bar-Or, I., Darling, A., D'Souza, N., Hachimi, O., Kaya, D., Kim, S., Gaardbo Kuhn, K., Layton, et al
2023: e0142823
- **Temperature and particles interact to affect human norovirus and MS2 persistence in surface water.** *Environmental science. Processes & impacts*
Kennedy, L. C., Lowry, S. A., Boehm, A. B.
2023
- **Wastewater Detection of Emerging Arbovirus Infections: Case Study of Dengue in the United States** *ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS*
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