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Pronouns: she, her, hers

EDUCATION

- 2013 Ph.D., Environmental Engineering
University of Maryland, Baltimore County (UMBC), Baltimore, MD
Dissertation title: *Effects of Urbanization on Groundwater Flow Systems and Streamflow Generation*, Advisor: Claire Welty
- 2008 Sc.B., Environmental Geology-Physics/Math
Brown University, Providence, RI

PROFESSIONAL EXPERIENCE

- 2023— Associate Professor, Department of Civil, Environmental, and Architectural Engineering, University of Colorado Boulder
- 2022—2022 Associate Professor, Department of Civil and Environmental Engineering, Colorado State University, Fort Collins, Colorado
- 2016—2022 Assistant Professor, Department of Civil and Environmental Engineering, Colorado State University, Fort Collins, Colorado
- 2014—2016 NSF Earth Sciences Postdoctoral Research Fellow, U.S. Geological Survey, Reston, Virginia
- 2014—2014 Postdoctoral Research Associate, Center for Urban Environmental Research and Education, UMBC, Baltimore, Maryland
- 2008—2013 Graduate Research Assistant, Department of Chemical, Biochemical, and Environmental Engineering, UMBC, Baltimore, Maryland
- 2008—2010 NSF Integrative Graduate Education and Research Trainee (IGERT) in “Water in the Urban Environment”, UMBC, Baltimore, Maryland

PUBLICATIONS, PEER-REVIEWED

- * Graduate student author where Bhaskar was the primary advisor
+ Graduate student author where Bhaskar was a committee member
^ Undergraduate student author

1. Choat, B.E.*, A. Pulido^, **A.S. Bhaskar**, R. Hale, H. Zhang, T. Meixner, L. McPhillips, K.G. Hopkins, J. Cherrier, C. Cheng (2023), Assessing Stormwater Control Measure Inventories from 23 Cities in the United States, *IOP Environmental Research: Infrastructure and Sustainability*. doi: [10.1088/2634-4505/acc759](https://doi.org/10.1088/2634-4505/acc759)

2. Zhang, K., S. Sebo, W. McDonald, **A.S. Bhaskar**, W. Shuster, R.D. Stewart, A.J. Parolari (2023), The role of inflow and infiltration (I/I) in urban water balances and streamflow regimes: A hydrograph analysis along the sewershed-watershed continuum, *Water Resources Research*, 59, e2022WR032529. doi: [10.1029/2022WR032529](https://doi.org/10.1029/2022WR032529).
3. Wilson, S.* , **A.S. Bhaskar**, B.E. Choat*, S. Kampf, T.R. Green, K.G. Hopkins (2022), Urbanization of grasslands in the Denver area affects streamflow responses to rainfall events, *Hydrological Processes*, 36(10), e14720. [10.1002/hyp.14720](https://doi.org/10.1002/hyp.14720)
4. Turner, V.K., K. Gmoser-Daskalakis, D.M. Costello, A. Jefferson, **A.S. Bhaskar** (2022). Champions and Traditional Technocrats: The Role of Environmental Value Orientation in Stormwater Management, *Journal of the American Water Resources Association*, doi: [10.1111/1752-1688.13015](https://doi.org/10.1111/1752-1688.13015)
5. K.G. Hopkins, S.A. Woznicki, B.M. Williams, C.C. Stillwell, E. Naibert, M. J. Metes, D.K. Jones, D.M. Hogan, N.C. Hall, R.M. Fanelli, and **A.S. Bhaskar** (2021). Lessons learned from 20 y of monitoring suburban development with distributed stormwater management in Clarksburg, Maryland, USA, *Freshwater Science*, doi: [10.1086/719360](https://doi.org/10.1086/719360)
6. Choat, B.E*, A. Pulido^, **A.S. Bhaskar**, R. Hale, H. Zhang, T. Meixner, L. McPhillips, K.G. Hopkins, J. Cherrier, C. Chingwen (2022), A call to record stormwater control functions and to share network data, *ASCE Journal of Sustainable Water in the Built Environment*, doi: [10.1061/JSWBAY.0000971](https://doi.org/10.1061/JSWBAY.0000971).
7. CUAHSI Board of Directors and Officers (Bales, J., **A.S. Bhaskar**, G. Characklis, A. Flores, T. Gilmore, J. Gomez-Velez, G. Grant, A. Jefferson, S. Khan, S. Ledford, S. Loheide, G. Miller, A. Mishra, A. Nolin, J. VanBriesen, A. Ward*, J. Zarnetske, M. Zimmer) (2022), COVID-19 Impacts Highlight the Need for Holistic Evaluation of Research and in the Hydrologic Sciences, *Water Resources Research*, 58, e2021WR030930, doi: [10.1029/2021WR030930](https://doi.org/10.1029/2021WR030930).
8. Fillo, N.K.* , **A.S. Bhaskar**, A. J. Jefferson (2021), Lawn irrigation contributions to semi-arid urban baseflow based on water-stable isotopes, *Water Resources Research*, 57, e2020WR028777, doi: [10.1029/2020WR028777](https://doi.org/10.1029/2020WR028777).
9. Knight, K.L.* , G. Hou, **A.S. Bhaskar**, S. Chen (2021). Assessing the use of dual-drainage modeling to determine the effects of green stormwater infrastructure on roadway flooding and traffic performance. *MDPI Water*, 13(11), 1563, doi: [10.3390/w13111563](https://doi.org/10.3390/w13111563).
10. Shuster, W.D., L. Schifman, C. Kelleher, H.E. Golden, **A.S. Bhaskar**, A.J. Parolari, R.D. Stewart, D.L. Herrmann (2021). K in an Urban World: New

Contexts for Hydraulic Conductivity. *Journal of the American Water Resources Association* doi: [10.1111/1752-1688.12918](https://doi.org/10.1111/1752-1688.12918).

11. Choat, B.E.* and **A.S. Bhaskar** (2020). Spatial Arrangement of Stormwater Infiltration Affects Subsurface Storage and Baseflow. *Journal of Hydrologic Engineering*. 25(11), doi:[10.1061/\(ASCE\)HE.1943-5584.0002005](https://doi.org/10.1061/(ASCE)HE.1943-5584.0002005). **Editor's Choice Article.**
12. Bell, C.D., J.M. Wolfand, C.L. Panos, **A.S. Bhaskar**, R.L. Gilliom, T.S. Hogue, K.G. Hopkins, and A.J. Jefferson (2020). Stormwater control impacts on runoff volume and peak flow: A meta-analysis of watershed modeling studies. *Hydrological Processes*, 34(14), 3134–3152, doi: [10.1002/hyp.13784](https://doi.org/10.1002/hyp.13784).
13. **Bhaskar, A.S.**, K.G. Hopkins, B.K. Smith, T.A. Stephens, and A.J. Miller (2020). Hydrologic signals and surprises in U.S. streamflow records during urbanization. *Water Resources Research*, 56(9), e2019WR027039, doi: [10.1029/2019WR027039](https://doi.org/10.1029/2019WR027039).
14. Kampf, S.K., S.J. Burges, J.C. Hammond, **A.S. Bhaskar**, T.P. Covino, A. Eurich, H. Harrison, M. Lefsky, C. Martin, D. McGrath, K. Puntteney-Desmond, K. Willi (2020). The case for an open water balance: Reenvisioning network design and data analysis for a complex, uncertain world. *Water Resources Research*, 56(6), e2019WR026699, doi: [10.1029/2019WR026699](https://doi.org/10.1029/2019WR026699).
15. Lurtz, M.R.+, R.R. Morrison, T.K. Gates, G.B. Senay, **A.S. Bhaskar**, D.G. Ketchum (2020). Relationships between riparian evapotranspiration and groundwater depth along a semi-arid irrigated river valley. *Hydrological Processes*, 34(8), 1714-1727, doi: [10.1002/hyp.13712](https://doi.org/10.1002/hyp.13712).
16. Hopkins, K.G., **A.S. Bhaskar**, S.A. Woznicki, and R.M. Fanelli (2020). Changes in Event-Based Streamflow Magnitude and Timing after Suburban Development with Infiltration-Based Stormwater Management. *Hydrological Processes*, 34(2), 387-403, doi: [10.1002/hyp.13593](https://doi.org/10.1002/hyp.13593).
17. Opalinski, N.F.*, **A.S. Bhaskar**, and D.T. Manning (2020). Spatial and Seasonal Response of Municipal Water Use to Weather across the Contiguous U.S. *Journal of the American Water Resources Association (JAWRA)*, 56(1), 68-81, doi: [10.1111/1752-1688.12801](https://doi.org/10.1111/1752-1688.12801).
18. Stewart, R.D., **A.S. Bhaskar**, A.J. Parolari, D.L. Herrmann, J. Jian, L.A. Schifman, and W.D. Shuster (2019). An Analytical Approach to Ascertain Saturation-Excess versus Infiltration-Excess Overland Flow in Urban and Reference Landscapes. *Hydrological Processes*, 33(26), 3349-3363, doi: [10.1002/hyp.13562](https://doi.org/10.1002/hyp.13562).

19. **Bhaskar, A.S.**, D.M. Hogan, J.R. Nimmo, and K.S. Perkins (2018). Groundwater Recharge amidst Focused Stormwater Infiltration. *Hydrological Processes*, 32(13), 2058-2068, doi: [10.1002/hyp.13137](https://doi.org/10.1002/hyp.13137).
20. Jefferson, A.J., **A.S. Bhaskar**, K.G. Hopkins, R. Fanelli, P.M. Avellaneda, and S.K. McMillan (2017), Effectiveness of stormwater management networks and implications for urban watershed function, *Hydrological Processes*, 31(23), 4056-4080, doi: [10.1002/hyp.11347](https://doi.org/10.1002/hyp.11347).
21. **Bhaskar, A.S.**, C. Jantz, C. Welty, S.A. Drzyzga, and A.J. Miller, (2016), Coupling of the Water Cycle with Patterns of Urban Growth in the Baltimore Metropolitan Region, United States, *Journal of the American Water Resources Association (JAWRA)*, 52(6), 1509-1523, doi:[10.1111/1752-1688.12479](https://doi.org/10.1111/1752-1688.12479).
22. **Bhaskar, A.S.**, D.M. Hogan, and S.A. Archfield, (2016), Urban base flow with Low Impact Development, *Hydrological Processes*, 30(18), 3156-4171, doi: [10.1002/hyp.10808](https://doi.org/10.1002/hyp.10808).
23. **Bhaskar, A.S.**, L. Beesley, M.J. Burns, T.D. Fletcher, P. Hamel, C.E. Oldham, and A.H. Roy (2016), Will it rise or will it fall? Managing the diverse effects of urbanization on base flow, *Freshwater Science*, 35(1), 293-310, doi: [10.1086/685084](https://doi.org/10.1086/685084).
24. **Bhaskar, A.S.** and C. Welty (2015), Analysis of subsurface storage and streamflow generation in urban watersheds, *Water Resources Research*, 51(3), 1493-1513, doi: [10.1002/2014WR015607](https://doi.org/10.1002/2014WR015607).
25. **Bhaskar, A.S.**, C. Welty, R.M. Maxwell, A.J. Miller (2015), Untangling the effects of urban development on subsurface storage in Baltimore, *Water Resources Research*, 51(2), 1158-1181, doi: [10.1002/2014WR016039](https://doi.org/10.1002/2014WR016039).
26. **Bhaskar, A.S.**, J.W. Harvey, and E.J. Henry (2012), Resolving hyporheic and groundwater components of streambed water flux using heat as a tracer, *Water Resources Research*, 48, W08524, doi: [10.1029/2011WR011784](https://doi.org/10.1029/2011WR011784).
27. **Bhaskar, A.S.** and C. Welty (2012), Water Balances along an Urban-to-Rural Gradient of Metropolitan Baltimore, 2001-2009, *Environmental and Engineering Geoscience*. 18(1), 37-50, doi: [10.2113/gsegeosci.18.1.37](https://doi.org/10.2113/gsegeosci.18.1.37).
28. Neupauer, R.M., J.L. Wilson, and **A.S. Bhaskar** (2009), Forward and backward temporal probability distributions of sorbing solutes in groundwater, *Water Resources Research*, 45, W01420, doi:[10.1029/2008WR007058](https://doi.org/10.1029/2008WR007058).

PUBLICATIONS, DATA

Bhaskar, A.S. (2021). Data used in Assessing the Use of Dual-Drainage Modeling to Determine the Effects of Green Stormwater Infrastructure on Roadway

Flooding and Traffic Performance, HydroShare, doi:
[10.4211/hs.6d6216f4973c45b6be80b3ce5e3e6764](https://doi.org/10.4211/hs.6d6216f4973c45b6be80b3ce5e3e6764)

Bhaskar, A.S. (2020). Analysis codes to conduct Quantile-Kendall trend analysis across flow duration curve of streamflow in urbanizing watersheds across U.S., HydroShare, doi: [10.4211/hs.2279cac6748944d39035dacb6c2c8a85](https://doi.org/10.4211/hs.2279cac6748944d39035dacb6c2c8a85)

Bhaskar, A.S. (2020). Data to support submission of "Lawn irrigation contributions to semi-arid urban baseflow based on water-stable isotopes", HydroShare, <http://www.hydroshare.org/resource/88bff690c1494e14a7ef90047eeff34a>

Hopkins, K.G., **A.S. Bhaskar**, S.A. Woznicki, R.M. Fanelli (2019) Streamflow and precipitation event statistics for treatment, urban control, and forested control watersheds in Clarksburg, MD USA (2004-2018): U.S. Geological Survey data release: doi:[10.5066/P9CGWUKT](https://doi.org/10.5066/P9CGWUKT).