

Bijan Seyednasrollah, PhD

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ACADEMIC APPOINTMENTS

Postdoctoral Research Associate / Environmental Data Scientist Harvard University / Northern Arizona University (PhenoCam Network)	2017-present
Doctoral Research and Teaching Assistant Duke University, Nicholas School of the Environment	2011-2017
Senior Researcher Research Institute of Petroleum Industry, Department of Energy and Environment, Iran	2006-2011

EDUCATION

Duke University , Durham, NC Ph.D. in Quantitative Environmental Science Dissertation: "Ecosystem Response to a Changing Climate: Vulnerability, Impact and Monitoring" Advisors: Dr. Jim Clark (Chair), Dr. Jean-Christophe Domec, Dr. Alan Gelfand and Dr. Jennifer Swenson	2017
Duke University , Durham, NC Certificate in College Teaching	2017
Sharif University of Technology , Tehran, Iran M.Sc. in Mechanical Engineering, Energy Conversion Thesis: "Modeling of Multi-Phase Flow in Porous Media", Advisor: Dr. Mehrdad T. Manzari	2006
University of Semnan , Semnan, Iran B.Sc. in Mechanical Engineering, Heat and Fluid Flow Thesis: "Numerical Modeling of Conductive Heat Transfer", Advisor: Dr. Farhad Talebi	2003

SELECTED PEER-REVIEWED JOURNAL PUBLICATIONS

11. **B. Seyednasrollah**, A. M. Young, K. Hufkens, T. Milliman, M. A. Friedl, S. Frolking and A. D. Richardson (2019), "Tracking vegetation phenology across diverse biomes using PhenoCam imagery: The PhenoCam dataset v2.0", Scientific Data, Accepted.
10. **B. Seyednasrollah** and M. Kumar (2019), "How surface radiation on forested snowpack changes across a latitudinal gradient", Hydrology 2019, 6(3), 62; doi:10.3390/hydrology6030062.
9. **B. Seyednasrollah**, T. Milliman and A. D. Richardson (2019), "Data extraction from digital repeat photography using xROI: An interactive framework to facilitate the process", ISPRS Journal of Photogrammetry and Remote Sensing, Volume 152, June 2019, Pages 132-144, doi:10.1016/j.isprsjprs.2019.04.009.
8. M. S. Carbone, **B. Seyednasrollah**, T. T. Rademacher, D. Basler, J. Le Moine, S. Beals, J. Beasley, A. Greene, J. Kelroy and A. D. Richardson (2019), "Flux Puppy an open source software application and portable system design for low-cost manual measurements of CO₂ and H₂O fluxes", Agricultural and Forest Meteorology, Volume 274, 15 August 2019, Pages 1-6, doi:10.1016/j.agrformet.2019.04.012.
7. **B. Seyednasrollah**, J. C. Domec and J. S. Clark (2019), "Spatiotemporal sensitivity of thermal stress for monitoring canopy hydrological stress in near real-time", Agricultural and Forest Meteorology, Volumes 269270, 15 May 2019, Pages 220-230, doi:10.1016/j.agrformet.2019.02.016.

6. A. D. Richardson, K. Hufkens, T. Milliman, D. M. Aubrecht, M. E. Furze, **B. Seyednasrollah**, M. B. Krassovski, J. M. Latimer, W. R. Nettles, R. R. Heiderman, J. M. Warren and P. J. Hanson (2018), “Ecosystem warming extends vegetation activity but heightens cold temperature vulnerability”, *Nature*, Volume 560, pages368371 (2018), doi:10.1038/s41586-018-0399-1.
5. **B. Seyednasrollah**, J. J. Swenson, J. C. Domec and J. S. Clark (2018), “Leaf phenology paradox: Why warming matters most where it is already warm”, *Remote Sensing of Environment*, Volume 209, May 2018, Pages 446-455, ISSN 0034-4257, doi:10.1016/j.rse.2018.02.059.
4. J. S. Clark, D. Nemergut, **B. Seyednasrollah**, P. Turner and S. Zhang (2017), “Generalized joint attribute modeling for biodiversity analysis: Median-zero, multivariate, multifarious data”, *Ecological Monographs*, 87(1), 34-56. doi:10.1002/ecm.1241.
3. **B. Seyednasrollah** and M. Kumar (2014), “Net radiation in a snow-covered discontinuous forest gap for a range of gap sizes and topographic configurations”, *J Geophys Res-Atmos*, 119, 10,32310,342. doi:10.1002/2014JD021809.
2. **B. Seyednasrollah** and M. Kumar (2013), “Effects of tree morphometry on net snowcover radiation on forest floor for varying forest densities”, *J Geophys Res-Atmos*, 118, 12,50812,521, doi:10.1002/2012JD019378.
1. **B. Seyednasrollah**, M. Kumar and T. E. Link (2013), “On the role of vegetation density on net snow cover radiation at the forest floor”, *J. Geophys. Res. Atmos*, 118, 83598374, doi:10.1002/jgrd.50575.

AWARDS, FUNDING, FELLOWSHIPS AND RECOGNITIONS

ESA Early Career Scholar Award , Ecological Society of America	2019
NEON Data Institute Fellowship , National Ecological Observatory Network	2018
Outstanding Accomplishments Fellowship , The Duke University Graduate School, “Ecosystem response to a changing climate: Vulnerability, impact and monitoring”, \$22,470	2016-2017
The Summer Research Fellowship , The Duke University Graduate School, “Remotely sensed canopy thermal stress to monitor droughts in near real-time”, \$5,500	2016
Bass Online Apprentice Fellowship , Duke University, \$11,235	2016
Bass Instructional Teaching Assistant Fellowship , Duke University, \$11,235	2015
Summer Research Award , Nicholas School of the Environment, Duke University, “Long term monitoring of leaf out phenology using satellite observation at large scales”, \$5,500	2015
Pathfinder Fellowship , The Consortium for the Advancement of Hydrologic Science Inc. (CUAHSI), “Role of vegetation density and pattern on net snow cover radiation at the forest floor”, \$4,996	2014
NASA Snow School Travel Award , NASA Snow School for Practitioners and Modelers, Fraser, CO	2014
National Elite , The National Association of Elites, Iran	2008
1st Departmental Rank , Mechanical Engineering Department, University of Semnan, Iran	2003

FEATURED IN THE MEDIA

- <i>Earth Notes: Drought Eye</i> KNAU Arizona Public Radio , https://www.knau.org/post/earth-notes-drought-eye/	June 26, 2019
- <i>Keeping an eye out for drought</i> LTER Network Science Update , https://lternet.edu/stories/eye-out-for-drought/	May 29, 2019
- <i>Flux Puppy: Ecological app for measuring carbon dioxide</i> PhysOrg.com , https://phys.org/news/2019-05-flux-puppy-ecological-app-carbon.html	May 21, 2019