**Bijan Seyednasrollah, PhD**

(updated: October 18, 2019)

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| <https://bnasr.github.io>  [bijan.s.nasr@gmail.com](mailto:bijan.s.nasr@gmail.com)  GitHub: @bnasr  (919) 599-4380 | | School of Informatics, Computing & Cyber Systems Northern Arizona University  PO Box 5693  Flagstaff, AZ 86011 | | | |
| **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** | | | | | |
| * *Earth Notes: Drought Eye* | | | | | |
| **KNAU Arizona Public Radio**, <https://www.knau.org/post/earth-notes-drought-eye/> | | | June 26, 2019 | | |
| * *Keeping an eye out for drought* | | | | | |
| **LTER Network Science Update**, <https://lternet.edu/stories/eye-out-for-drought/> | | | May 29, 2019 | | |
| * *Flux Puppy: Ecological app for measuring carbon dioxide* | | | | | |
| **PhysOrg.com**, https://phys.org/news/2019-05-flux-puppy-ecological-app-carbon.html | | | May 21, 2019 | | |