

Prahlad Jat

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Education

Collage of Tech. & Ag. Engineering Udaipur, India	Agricultural Engineering	B.E. , 2000
University of Arkansas Fayetteville, AR	Biological Engineering	M.S. , 2007
University of North Carolina Chapel Hill, NC	Environmental Engineering	Ph.D. , 2016

Professional Experience

Assistant Professor , University of North Georgia, Georgia	August 2019 – Current
Product Engineer , ESRI, California	2018 – 2019
Data Scientist (Geospatial) , Monsanto Company	2017 – 2018
Research Assistant , University of North Carolina at Chapel Hill, NC	2011 – 2016
Research Assistant , University of North Carolina at Chapel Hill, NC	2009 – 2011
Research Analyst , University of Georgia, Athens, GA	2007 – 2008
Research Assistant , University of Arkansas, Fayetteville, AR	2003 – 2006

Affiliation

Visiting fellow: <i>BMElab</i> , Environmental Sciences and Engineering Gillings School of global Public Health, University of North Carolina at Chapel Hill, NC	2017- Current
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Scientific Software/Programming Skill

Software Packages:	ArcGIS
Database software:	MS Access, MySQL
Cloud computing:	AWS
Scripting:	Python
Software version Control:	GitHub & Domino Data Science Platform

Peer Reviewed Publications

Ying Li, Jacqueline M. Gibson, **Prahlad Jat**, Gavino Puggioni, Mejs Hasan, J. Jason West, Will Vizuete, Ken Sexton, Marc Serre. Burden of disease attributed to anthropogenic air pollution in the United Arab Emirates: Estimates based on observed air quality data. *Science of the Total Environment*, **2010**, 408(23):5784-5793 (Journal Impact Factor (2016): 4.900)

Prahlad Jat and Marc L Serre. Bayesian Maximum Entropy space/time estimation of surface water chloride in Maryland using river distances. *Environmental Pollution*, **2016**, 219, p 1148-1155. (<http://dx.doi.org/10.1016/j.envpol.2016.09.020>) (Journal Impact Factor (2016): 5.099)

Mohan, Midhun, Carlos Alberto Silva, Carine Klauberg, **Prahlad Jat**, Glenn Catts, Adrián Cardil, Andrew Thomas Hudak, and Mahendra Dia. "Individual Tree Detection from Unmanned Aerial Vehicle (UAV) Derived Canopy Height Model in an Open Canopy Mixed Conifer Forest." *Forests* 8, no. 9 (**2017**): 340. (Journal Impact Factor (2016): 1.951)

Prahlad Jat and Marc L Serre. A Novel Geostatistical Approach Combining Euclidean and Gradual-Flow Covariance Models to Estimate Fecal Coliform along the Haw and Deep Rivers in North Carolina. *Stochastic Environmental Research and Risk Assessment* (2018).

<https://doi.org/10.1007/s00477-018-1512-6>

(Journal Impact Factor (2016): 2.629)

Kahlon Charanjit, Bin Li, James Board, Mahendra Dia , Parmodh Sharma and **Prahlad Jat**. Cluster and Principle Component Analysis of Soybean Grown at Various Row Spacings, Planting Dates and Plant Populations. *Open Agriculture* (2018), 3, p 110-121.

(DOI: <https://doi.org/10.1515/opag-2018-0011>)

Book Chapter

Book Chapter: Chapter 4: Burden of Disease from Outdoor Air Pollution. 2013. In: MacDonald Gibson, A. Brammer, C. Davidson, T. Folley, F. Launay, and J. Thomsen (eds). *Environmental Burden of Disease Assessment: A Case Study in the United Arab Emirates*. Dordrecht, the Netherlands: Springer. ISBN-10: 940075924X, ISBN-13: 978-9400759244.

Journal Editors

Associate Editor: Journal of Agrosystem, Geosciences and Environment

<https://dl.sciencesocieties.org/publications/age>

Associate Editor: Journal of Spatial Hydrology <http://www.spatialhydrology.net/index.php/JOSH>

Editorial Board Member: The Open Agriculture Journal. <https://benthamopen.com/index.php>

Awards and Achievements

Superfund Research Program Trainee 2011 – 2014

Scientific Software 2009 – 2012

BMEGUI v3, space/time data analysis software implementing Bayesian Maximum Entropy (BME) theory: http://www.unc.edu/depts/case/BMEGUI/BMEGUI3.0.1/BMEGUI3.0.1_WEB_2014.htm

Travel Grant: Sackler Colloquia of the *National Academy of Sciences* (NAS) 2005