Piyush Mehta

125 Academy St, Newark, DE 19716, USA
(302)-268-5055 piyush@udel.edu https://www.linkedin.com/in/piyush-mehta-/

EDUCATION

Madras School of Economics **2014-2016**
M.Sc. Economics with specialization in Environmental Economics *Chennai, India*

University of Delhi **2011-2014**
B.Sc. (Honors) Physics *Delhi, India*

APPOINTMENTS

Dept. of Geography, University of Delaware **Sept 2021 – Present**
Teaching Assistant *Newark, DE*

Dept. of Geography, University of Delaware **Sept 2019 – Aug 2021**
Research Assistant *Newark, DE*

Indian School of Business **Oct 2016 – July 2019**
Research Associate, Bharti Institute of Public Policy *Hyderabad, India*

PUBLICATIONS

Allan, J.R., Possingham, H.P., Atkinson, S.C., Waldron, A., Di Marco, M., Adams, V.M., Butchart, S.H.M., Kissling, W.D., Worsdell, T., Gibbon, G., Kumar, K., **Mehta, P.**, Maron, M., Williams, B.A., Jones, K.R., Wintle, B.A., Reside, A.E., & Watson, J.E.M., (2022). The minimum land area requiring conservation attention to safeguard biodiversity. Science (80-.). 376, 1094–1101. *https://doi.org/10.1126/science.abl9127*

Mehta, P., Siebert, S., Kummu, M., Deng, Q., Ali, T., Marston, L., Xie, W., & Davis, K.F. (2022). Majority of 21st century global irrigation expansion has been in water stressed regions. EarthArXiv. *https://doi.org/10.31223/X5C932*

Mehta, P., Siebert, S., Kummu, M., Deng, Q., Ali, T., Marston, L., Xie, W., & Davis, K.F. (2022). Global Area Equipped for Irrigation Dataset 1900-2015 (Version 2) [Data set]. Zenodo. *https://doi.org/10.5281/zenodo.6886564*

Sharretts T, **Mehta, P.**, Ali, T., Marston, L., Xie, W., Davis, K.F., (In Review). Deepening unsustainable water use in global breadbasket countries.

Davis KF, **Mehta, P.**, Adhikari, A., Akram, H., Al Fahel, N., Evans, A., Kelly, A., Kuntz, J., Lewis, E., Manandhar, L., Sharretts, T., Sherman, M., Slabicki, K., Zappacosta, R., Dalin, C., Marston, L., Tuninetti, M., (In Prep). Crop switching as an opportunity for reducing water scarcity and enhancing climate resilience in the US.

TECHNICAL PUBLICATIONS

Rights and Resources Initiative (2020, November) Rights-Based Conservation: The path to preserving Earth's biological and cultural diversity? Washington, D.C. Retrieved from *https://rightsandresources.org/wp-content/uploads/2020/11/Final_Rights_Conservation_RRI_05-01-2021.pdf*

Consumption of Rainfed Crops in Rural India (2019, February) Forest governance, Indian School of Business. Retrieved from *https://forestgov.isb.edu/content/dam/sites/forestgov/downloads/Consumption-of-Rainfed-Crops-in-Rural-India.pdf.coredownload.pdf*

Mehta, P., Basu, S., (2018). Spatial and temporal patterns in forest plantations in India. Retrieved from *https://www.isb.edu/en/research-thought-leadership/research-centres-institutes/bharti-institute-of-public-policy/Research/Reports/reportitem4.html*

Chhatre, A., Dutta, A., **Mehta, P.,**. (2016). Impact of Climatic Conditions on GDP. Retrieved from *https://isbinsight.isb.edu/impact-of-climatic-conditions-on-gdp/*

AWARDS

2022, Summer Doctoral Fellowship Award, University of Delaware ($4500)

2020, Virtual Travel Grant, American Geophysical Union ($1000)

2019-2021, Research Assistantship, Department of Geography and Spatial Sciences, University of Delaware ($60,000)

2012-2013, Ramjas College Scholarship, University of Delhi ($200)

2011, Central Sector Scheme Scholarship, Central Board of Secondary Education($400)

PRESENTATIONS

Mehta, P., Niles, M., Davis, K.F. (2022) Evaluating Linkages between Irrigation and Nutrition in Children across Thirty Countries, Presentation (in person), American Geophysical Union Annual Meeting, Chicago, Illinois.

Mehta, P., Siebert, S., Kummu, M., Deng, Q., Ali, T., Marston, L., Xie, W., & Davis, K.F. (2021) Mapping changes in global area equipped for irrigation, Poster (in person), American Geophysical Union Annual Meeting, New Orleans, Louisiana.

Mehta, P., Siebert, S., Kummu, M., Deng, Q., Ali, T., Marston, L., Xie, W., & Davis, K.F. (2021) Mapping changes in global irrigated areas, Poster (virtual), Data Science Symposium, University of Delaware, Delaware.

Mehta, P., Siebert, S., Kummu, M., Deng, Q., Ali, T., Marston, L., Xie, W., & Davis, K.F. (2020) Mapping changes in global irrigated areas, Poster (virtual), American Geophysical Union Annual Meeting, San Francisco, California.

Mehta, P., Chhatre, A. (2019) Consumption of Rainfed Crops in Rural India. Poster. Revitalising Rainfed Agriculture National Convention, Restructuring Policy and Public Investments to Address Agrarian Crisis. New Delhi, India.

MEDIA

New Scientist (2022). Half of newly irrigated land is in water-stressed areas.
https:// www.newscientist.com/ article/ 2334500-half-of-newly-irrigated-land-is-in-water-stressed-areas/

TEACHING

University of Delaware (Teaching Assistant)

Fall 2022, Introduction to GIS, GEOG372

Spring 2022, Advanced GIS, GEOG671

Fall 2021, Introduction to GIS, GEOG372

RELEVANT COURSEWORK AND SKILLS

Coursework:Environmental Computing with R; Spatial Computing with Python; Remote Sensing - Know Your Satellites; Advanced Geographic Information System; Spatial Analysis and Visualization in R; Econometrics

Languages/Softwares: Python, R, ArcGIS, QGIS, PyQGIS, JavaScript, STATA, C++, VBA, XLSForms, LaTeX

Developer Tools: Google Earth Engine