

Arjun Chakrawal

Education

Stockholm University, Department of Physical Geography

Ph.D. candidate in Hydrology, Water Resources and Permafrost research unit

[Sept 2017–Sept 2021]

Indian Institute of Science, Bangalore

Bachelor of Science (Major: Environmental Sci.) CGPA 6.3/8

[Aug 2011–July 2015]

Indian Institute of Science, Bangalore

Master of Science (Major: Environmental Sci.) CGPA 6.5/8

[Aug 2015–July 2016]

Groundwater and Global Change - Impacts and Adaptation (GroundwatCH)

Joint Masters Programme

Instituto Superior Tecnico, Lisbon, Portugal

[Sept 2016–Jan 2017]

UNESCO-IHE Institute for Water Education, Delft, Netherlands

[Feb 2016–July 2017]

Research experience

Stockholm University

Ph.D. Researcher

Upscaling of soil carbon dynamics from micro-scale to ecosystem scale.

[Sept 2017–present]

Department of Civil Engineering, Indian Institute of Science

Master's Thesis

Modeling of Nitrous Oxide Emissions from a Maize Cropland using a Crop Model.

[Aug 2015–July 2016]

Department of Civil Engineering, Indian Institute of Science

Bachelor's Thesis

Two-Phase Flow Modeling in Unsaturated Porous Media.

[Jan 2014–May 2016]

Department of Applied Mechanics, Indian Institute of Technology, Madras

Estimation of permeability field from the observed water table variation during fluid injection. [June 2015–July 2015]

Indian Institute of Science, Center for Oceanic and Atmospheric Sciences

Study of upwelling along the coast-line of Sri Lanka.

[May 2013–July 2013]

Honors and awards

- The Bolin Centre for Climate Research travel grant for attending conference Ecology of Soil Microorganisms (ESM) 2018 (Helsinki, Finland).
- Recipient of **Erasmus Mundus** fellowship for GroundwatCH program. [Sept 2016–July 2017]
- Recipient of **INSPIRE** fellowship, *Department of Sci. & Technology (DST), India.* [Aug 2011–July 2016]

Technical skills

Programming Languages: MATLAB, Python (pandas, scipy)

Crop Model: Stics, Ceres

Teaching/Assisting– Masters level

Introduction to Python

Advance Hydrogeology

Publications

Chaudhuri, A., Chakrawal, A., Naigaonkar, P., Franssen, H. J. H., & Sekhar, M. (2018, December). Estimation of permeability field from sparse measurements of local permeability and water table fluctuations. In Deep Rock Mechanics: From Research to Engineering: Proceedings of the International Conference on Geo-Mechanics, Geo-Energy and Geo-Resources (IC3G 2018), September 21-24, 2018, Chengdu, PR China (p. 181). CRC Press.

Web links

LinkedIn

Stockholm University profile