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Employment

April 2022 – current	Assistant Research Professor	4600 River Road, Riverdale, Maryland 20737, United States
April 2016 – April 2022	Senior Remote Sensing Expert	GISAT s.r.o., Milady Horakove 57, 170 00 Praha 7, Czech Republic
August 2017 – August 2020	Post-doctoral Research Associate (part-time & consultancy-based)	International Institute for Applied Systems Analysis (IIASA), Schlossplatz 1. A-2361 Laxenburg Austria
January 2012 – December 2013	GIS and Remote Sensing Analyst	Ecometrica, Orchard Brae House, Edinburgh EH4 2HS, United Kingdom
September 2011 – December 2012	REDD+ Research Assistant	University of Edinburgh, The King's Buildings, Edinburgh EH9 3BF, United Kingdom

Educational Background

January 2013 – June 2016	PhD in Forest, Nature and Biomass	University of Copenhagen, Denmark
September 2010 – November 2011	Master of Science in Carbon Management	University of Edinburgh, United Kingdom
September 2007 – 4 June 2010	Bachelor of Science in Earth and Space Sciences	Jacobs University Bremen, Germany

Selected project experience

- Leading ESA's Sentinel-1 for Science Amazonas project, with aims to develop, test and validate an operational-level multi-temporal forest change detection algorithm using interferometric SAR time series (<http://project.gisat.cz/s14scienceAmazonas/>).
- Designing and implementing operational algorithms for the accurate and timely monitoring of agriculture cycles across Europe using Sentinel-1 backscatter and coherence datasets for the ESA SEN4CAP (<http://esa-sen4cap.org/>) and DROMAS (<https://www.czechspace.cz/en/dromas>) project.

- Developing methods and the demonstration of a QGIS plugin for the collection of unbiased statistics on cropland areas for the GEOGLAM SIGMA (<https://cordis.europa.eu/project/id/603719>) project.
- Development of a capacity building plan for training in GIS and remote sensing for urban applications in the ESA EO4SD (<http://eo4sd.esa.int/>) project.
- Leading research on the mapping of deforestation and forest gradation in South Sumatra and East Kalimantan as a part of the RESTORE+ project (<http://www.restoreplus.org>).

Teaching Activities

July 2018	Course instructor at SPatial LITeracy 2018 on Synthetic Aperature Radar (SAR) for land-cover mapping (https://splitremotesensing.com/split-2018/)
November 2017	Course instructor for Practical Use of SAR technologies at Agresta S. Coop. (https://agresta.org/)
January 2013 – March 2016	Introduction to Radar and LiDAR Remote Sensing course (Bachelors and Masters-level course) at the University of Copenhagen
September 2008 – June 2010	Teaching assistant at physics laboratory and for courses on Renewable Energy Physics and Geochemistry

Publications and Conference Proceedings

Book Chapters

Neha Joshi (2016). Nuts about Gold: Competition for land in Madre de Dios, Peru. Chapter 7 in Niewöhner J, Bruns A, Haberl H, Hostert P, Krüger T, Lauk C, Lutz J, Müller D, Nielsen J (eds) Land use competition. Ecological, economic and social perspectives. Human-Environment Interactions. Springer, Dordrecht (https://link.springer.com/chapter/10.1007/978-3-319-33628-2_7)

Peer-reviewed Publications

Alasdair JR Rideout, **Neha Joshi**, Karin M Viergever, Mark Huxham, and Robert A Briers (2013). Making predictions of mangrove deforestation: a comparison of two methods in Kenya. Global Change Biology, 19(11).

Neha Joshi, Edward T. A. Mitchard, Matthew Brolly, Johannes Schumacher, Alfredo Fernández-Landa, et al. (2016). Understanding ‘saturation’ of radar signals over forests. Scientific Reports, 8, 3505.

Neha Joshi, Matthias Baumann, Andrea Ehammer, Rasmus Fensholt, et al. (2016). A Review of the Application of Optical and Radar Remote Sensing Data Fusion to Land Use Mapping and Monitoring. *Remote Sensing*, 8, 70. Received the **MDPI Remote Sensing 10th Anniversary Best Paper Award** (<https://www.mdpi.com/2072-4292/11/15/1790/htm>)

Neha Joshi, Edward TA Mitchard, Natalia Woo, Jorge Torres, et al. (2015). Mapping dynamics of deforestation and forest degradation in tropical forests using radar satellite data. *Environmental Research Letters*, 10 034014.

Neha Joshi, Edward TA Mitchard, Johannes Schumacher, Vivian Kvist Johannsen, et al. (2015). L-Band SAR Backscatter Related to Forest Cover, Height and Aboveground Biomass at Multiple Spatial Scales across Denmark. *Remote Sensing*, 7, 4442-4472.

Casey M Ryan, Nicholas J Berry, **Neha Joshi**, (2014). Quantifying the causes of deforestation and degradation and creating transparent REDD+ baselines: A method and case study from central Mozambique. *Applied Geography*, 53, 45-54.

Published Project Reports

Sophie Bontemps, **Neha Joshi**, Nicolas Bellemans, Philippe Malcorps, Corrado Avolio, Katja Bajec, Cosmin Cara, Laura de Vendictis et al. (2019). Sen4CAP - Sentinels for Common Agricultural Policy Design Justification File ATBD for L4C agricultural monitoring product (http://esa-sen4cap.org/sites/default/files/Sen4CAP_DDF_v1.2_AgriPractices.pdf)

Conference Proceedings and Refereed Presentations

Inian Moorthy, **Neha Joshi**, Muhammad Zulkarnain, Andree Ekadinata, et al. (2019). Validating maps of land cover and land degradation with citizen science and mobile gaming. In: XXV IUFRO World Congress, 29 September-5 October 2019, Curitiba, Brazil.

Sophie Bontemps, Pierre Defourny, Nicolas Bellemans, Philippe Malcorps, Corrado Avolio, Katja Bajec, Cosmin Cara, Laura de Vendictis, **Neha Joshi** et al. (2019). Sen4CAP – Supporting the CAP Reform Using Sentinel-1 and -2 For Agriculture Monitoring. From Agriculture Mapping to Monitoring: CAP monitoring (4). In: Living Planet Symposium 2019, Milan, Italy.

Neha Joshi, Edward TA Mitchard (2015). Deforestation and forest degradation in tropical forests using ALOS PALSAR. In: The 2nd PI Workshop for ALOS-2. Tokyo, Japan.

Neha Joshi, Edward TA Mitchard, Johannes Schumacher, Vivian Kvist Johannsen, et al. (2014). Multiple Spatial Scale Analysis Of L-Band SAR Backscatter Relation to Vegetation Cover and Aboveground Biomass. In: IEEE IGARSS & 35th Canadian Symposium on Remote Sensing 2014, Quebec, Canada.