

# Bedartha Goswami

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Google Scholar h-Index 16 • Web of Science h-Index 14



## BASIC INFORMATION

**Date Of Birth**

26 August, 1986

**Place Of Birth**

Guwahati, India

**Nationality**

Indian

## CURRENT STATUS

**Research Group Leader**

**Jan 2020–ongoing**

Independent Research Group "Machine Learning in Climate Science"  
Cluster of Excellence "Machine Learning," University of Tübingen  
[machineclimate.de](https://machineclimate.de)  
[twitter.com/machineclimate](https://twitter.com/machineclimate)  
[github.com/mlcs](https://github.com/mlcs)

## PARENTAL LEAVE

Nov 2021–Jan 2022, Apr 2022–Sep 2022

## WORK EXPERIENCE

**Post-Doc**

**Sep 2017–May 2020**

RD IV Complexity Science, Potsdam Institute for Climate Impact Research

**Post-Doc**

**March 2016–Aug 2017**

Institute of Geosciences, University of Potsdam

**Post-Doc**

**Jan 2015–Dec 2015**

RD IV Complexity Science, Potsdam Institute for Climate Impact Research

## QUALIFICATION

**PhD, Climate Physics**

**May 2015**

Potsdam Institute for Climate Impact Research, &  
Institute of Physics and Astronomy, University of Potsdam

**Master Of Science**

**June 2011**

Indian Institute of Science Education and Research, Pune

**Bachelor Of Science**

**June 2011**

Indian Institute of Science Education and Research, Pune

<b>PEER REVIEW</b>	Editorial Board Member of <i>Scientific Reports</i> and <i>Entropy</i> ; refereed articles submitted to <i>Chaos</i> , <i>PLOS ONE</i> , <i>Geophysical Research Letters</i> ; Program Chair in ECML PKDD 2021 and 2022; refereed articles at CCAI Workshop at ICLR	
<b>SCIENTIFIC MEMBERSHIPS</b>	American Meteorological Society; American Geophysical Union; European Geosciences Union; European Physical Society; Institute of Physics; Royal Meteorological Society	
<b>SYNERGIC ACTIVITIES</b>	<b>University</b>	<p>Talk at the <i>Machine Learning meets Environmental Science</i> workshop organized by the Cluster of Excellence “Machine learning” on 25 Sep 2020</p> <p>Talk at the <i>Cyber Valley Research Forum</i> organized virtually on 14 September 2021</p>
	<b>Professional</b>	<p>Co-chaired the tutorial ‘Challenges in KDD and ML for Sustainable Development’ at the 27th ACM SIGKDD Conference on Knowledge Discovery &amp; Data Mining (KDD’21) held at Singapore (and online) during 14–18 Aug 2021</p> <p>Organized the “luCliD workshop” on uncertainties in climate data analysis at the Potsdam Institute for Climate Impact Research, Germany during 30 Sep–2 Oct 2020</p> <p>Organized a short course “Temporal and spatial uncertainties in climate data analysis” at the European Geosciences Union General Assembly, Vienna on 10 Apr 2018</p>
	<b>Public</b>	<p>Featured in the public exhibition “Cyber and the City” currently ongoing at the City Museum of Tübingen from February 2023–October 2023</p> <p>Conducted a panel on ‘Machine Learning and Climate Science’ at the Urban Digital Talks organized by the Stiftung Energie &amp; Klimaschutz on 8 Apr 2021</p>
<b>SOFTWARE PACKAGES &amp; REPOSITORIES</b>	<b>MLCS Github</b>	<p><a href="https://github.com/mlcs">github.com/mlcs</a></p> <p>Contribute to and maintain packages on the official Github page of the research group Machine Learning in Climate Science, e.g., <i>iaaft</i> (iterated amplitude adjusted Fourier transformed surrogates), <i>fekete</i> (generate uniform grid of points on sphere), and <i>copra</i> (paleoclimatic age modeling)</p>
	<b>UP-RS-ESP GitHub</b>	<p><a href="https://github.com/UP-RS-ESP">github.com/UP-RS-ESP</a></p> <p>Maintain packages <i>qreg</i> (quantile regression), <i>bpl</i> (bounded power laws), and <i>mkt</i> (Mann-Kendall test) on the GitHub repo of the University of Potsdam - Remote Sensing - Earth Surface Processes Group</p>
	<b>NESTool</b>	<p><a href="https://tocsy.pik-potsdam.de/nest.php">tocsy.pik-potsdam.de/nest.php</a></p> <p>Developed Python port of <i>NESTool</i>, which allows users to estimate correlations between non-coinciding, irregularly sampled time series</p>

**COPRA****[tocsy.pik-potsdam.de/copra.php](https://tocsy.pik-potsdam.de/copra.php)**

Actively involved in developing *COPRA*, a Matlab toolbox that allows users to construct proxy records from age models along with proxy uncertainties

**AWARD****DAAD WISE Scholarship****May–Jul 2010**

Summer internship with Prof Jürgen Kurths at the Potsdam Institute for Climate Impact Research, Potsdam

**LANGUAGE  
SKILLS****Native**

Assamese

**Fluent**

English, Hindi

**Conversational**

German

**Basic**

Bengali

**HOBBIES &  
INTERESTS**

Writing Bash scripts and Python scripts to automate tasks such as managing a database of journal articles and managing a todo list; going on long hikes (around 15-20 km) on weekends; continually attempting to build and maintain a herb garden; cooking new adaptations of Assamese dishes