

Bedartha Goswami

Cluster of Excellence “Machine Learning” • University of Tübingen
Maria-von-Linden-Str. 6 • 72076 Tübingen
+49-7071-29-70894 • bedartha.goswami@uni-tuebingen.de

<https://machineclimate.de/people/goswami/>
twitter.com/bedartha • github.com/bedartha

Orcid ID 0000-0002-2302-166X • Web of Science ResearcherID: AAZ-6789-2020
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
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Independent Research Group “Machine Learning in Climate Science”
Cluster of Excellence “Machine Learning,” University of Tübingen
machineclimate.de
twitter.com/machineclimate
github.com/mlcs

PARENTAL LEAVE Nov 2021–Jan 2022, Apr 2022–Sep 2022

WORK EXPERIENCE

Post-Doc	Sep 2017–May 2020
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RD IV Complexity Science, Potsdam Institute for Climate Impact Research

Post-Doc	March 2016–Aug 2017
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Institute of Geosciences, University of Potsdam

Post-Doc	Jan 2015–Dec 2015
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RD IV Complexity Science, Potsdam Institute for Climate Impact Research

QUALIFICATION

PhD, Climate Physics	May 2015
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Potsdam Institute for Climate Impact Research, &
Institute of Physics and Astronomy, University of Potsdam

Master Of Science	June 2011
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Indian Institute of Science Education and Research, Pune

Bachelor Of Science	June 2011
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Indian Institute of Science Education and Research, Pune

PEER REVIEW Editorial Board Member of *Scientific Reports* and *Entropy*; refereed articles submitted to *Chaos*, *PLOS ONE*, *Geophysical Research Letters*; Program Chair in ECML PKDD 2021 and 2022; refereed articles at CCAI Workshop at ICLR

SCIENTIFIC MEMBERSHIPS American Meteorological Society; American Geophysical Union; European Geosciences Union; European Physical Society; Institute of Physics; Royal Meteorological Society

SYNERGIC ACTIVITIES **University**
Talk at the *Machine Learning meets Environmental Science* workshop organized by the Cluster of Excellence “Machine learning” on 25 Sep 2020
Talk at the *Cyber Valley Research Forum* organized virtually on 14 September 2021

Professional

Co-chaired the tutorial ‘Challenges in KDD and ML for Sustainable Development’ at the 27th ACM SIGKDD Conference on Knowledge Discovery & Data Mining (KDD’21) held at Singapore (and online) during 14–18 Aug 2021

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

Organized a short course "Temporal and spatial uncertainties in climate data analysis" at the European Geosciences Union General Assembly, Vienna on 10 Apr 2018

Public

Featured in the public exhibition “Cyber and the City” currently ongoing at the City Museum of Tübingen from February 2023–October 2023

Conducted a panel on ‘Machine Learning and Climate Science’ at the Urban Digital Talks organized by the Stiftung Energie & Klimaschutz on 8 Apr 2021

SOFTWARE PACKAGES & REPOSITORIES

MLCS Github github.com/mlcs

Contribute to and maintain packages on the official Github page of the research group Machine Learning in Climate Science, e.g., *iaaft* (iterated amplitude adjusted Fourier transformed surrogates), *fekete* (generate uniform grid of points on sphere), and *copra* (paleoclimatic age modeling)

UP-RS-ESP GitHub github.com/UP-RS-ESP

Maintain packages *qreg* (quantile regression), *bpl* (bounded power laws), and *mkt* (Mann-Kendall test) on the GitHub repo of the University of Potsdam - Remote Sensing - Earth Surface Processes Group

NESTool tocsy.pik-potsdam.de/nest.php

Developed Python port of *NESTool*, which allows users to estimate correlations between non-coinciding, irregularly sampled time series

COPRAtocsy.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