ASHER SIEBERT, PhD

APPLIED CLIMATE SCIENTIST

CONTACT

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845-584-6428

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asclimateservices.org

SKILLS

- **Quantitative/data analysis:** Python, R, MATLAB, IRI Data Library, CPT (Climate Predictability Tool), PyCPT (Python-CPT), CDT (Climate Data Tools), geospatial analysis in Python
- **Other/General:** Microsoft Office, training, teaching, leadership, teamwork, interdisciplinary thinker, writing/presentation on technical subjects to diverse audiences
- **Language:** English - native, French - intermediate proficiency

EDUCATION

- **Ph.D. Geography; Rutgers University (2009-2015)**
  Dissertation: Assessing the Viability of Index Insurance as an Adaptation Tool in a Changing Climate Context: Case Study in the West African Sahel
- **M.A. Climate and Society; Columbia University (2005-2006)**
- Graduate study, **Physical Oceanography; MIT-Woods Hole Oceanographic Institute (WHOI) (2002-2004)**
- **B.A. Geosciences; Princeton University (1998-2002)**
  Cum Laude, Sigma Xi, Edward Sampson 1914 Prize in Environmental Geosciences Research

PURPOSE

To contribute to societal climate resilience

Adaption and solution oriented applied Climate Scientist with over 15 years of experience working on:

- Climate data analysis; regression, correlation, downscaling and index analysis with global climate model, remote sensing, meteorological station, health, agricultural and socioeconomic data
- Applications in agriculture/food security, health, energy, insurance and humanitarian disaster response
- Interdisciplinary, international team projects with complex, rapidly evolving objectives
- Projects in Africa, US, Europe, South Pacific and the Caribbean

PROFESSIONAL EXPERIENCE

CLIMATE ANALYTICS **Nov 2024-Sep 2026**

Senior Scientist on Loss and Damage **New York, NY**

- Team Lead developed a cross-sectoral National Climate Loss and Damage Strategy for Saint Kitts and Nevis (NDCPAF) - the first such national strategy in the Caribbean
- Contributor to loss and damage project in the South Pacific (IKI BOLD)
- Contributor to climate hazard assessment for NGFS and SPARCCLE projects
- Presented the state of climate science on loss and damage to the UNOHRLLS
- Contributor to proposals on climate justice and public health

COLUMBIA UNIVERSITY CLIMATE SCHOOL **Sep 2024-Dec 2024**

Teaching Assistant - Climate Dynamics (graduate) **New York, NY**

CLIMATEBASE **Sep 2023-Dec 2023**

Fellow - part of selective professional fellowship for climate professionals

INTERNATIONAL RESEARCH INSTITUTE FOR CLIMATE AND SOCIETY (IRI)
COLUMBIA UNIVERSITY CLIMATE SCHOOL **Palisades, NY**

Senior Staff Associate **Jul 2019 - Dec 2022**

Postdoctoral Research Scientist **Jun 2016 - Jun 2019**

- Work on World Food Programme (WFP) sponsored *Niger Forecast-based Financing project* triggered a 9.5 million USD *payout* through UN Central Emergency Response Fund (CERF) in response to a severe drought, 2022
- Lead author paper in *International Journal of Climatology* was the first study of Rwanda's climatology using high resolution satellite-station data including the post genocide period
- Forecast seasonal climate variability using statistical methods (canonical correlation analysis (CCA), principal component and extended logistic regression (PCR, ELR), skill assessment)
- Led or co-led 20 trainings (in-person and remote) on forecasting and analysis using IRI tools (with national and regional meteorological and climate services partners in Africa and Asia)
- Developed climate science and statistics curricula in climate risk management for agricultural extension in Ethiopia
- Coauthored papers in *Malaria Journal*, *Climate Dynamics*, *Atmospheric and Climate Sciences*, *Atmospheric Research*

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PRINCETON ENVIRONMENTAL INSTITUTE (PEI), PRINCETON UNIVERSITY **Princeton, NJ**
Postdoctoral Research Associate **Feb 2015 - May 2016**

- Interdisciplinary research with economists, engineers and public health experts on the interplay between climate mitigation, economic impact, population and public health using integrated assessment models (IAMs)
- Coauthored papers in *Proceedings of the National Academy of Sciences*, *Climatic Change* and *World Bank Economic Review*

RUTGERS UNIVERSITY GEOGRAPHY DEPARTMENT **New Brunswick, NJ**
Teaching Assistant / Graduate Student **Sep 2009 - Jan 2015**

- John Mather Paper of the Year Award for paper in *Journal of Applied Meteorology and Climatology*, (Climate Specialty Group, Association of American Geographers (AAG))
- Lead author papers in *Climatic Change*, *Weather*, *Climate and Society*, *GeoCompass*, and *African Geographical Review*
- Developed statistical climate scenario analysis methods focusing on extreme seasons (Monte Carlo methods, extreme tail estimation methods, auto-regressive processes)
- Dissertation Teaching Award, (Rutgers University Graduate School) - developed and taught upper-level undergraduate course on climate and society
- 4+ years of undergraduate and graduate teaching and TA experience

INTERNATIONAL RESEARCH INSTITUTE FOR CLIMATE AND SOCIETY (IRI)
COLUMBIA UNIVERSITY **Palisades, NY**
Staff Associate **Sep 2006 - Dec 2008**

- Developed drought index insurance contracts for a dozen locations across Africa (Millennium Villages Project) in project supported by Swiss ReInsurance

PUBLICATIONS

- Author or coauthor of 15 peer-reviewed articles, 20 reports/policies/training curricula, over 50 conference presentations, 30 invited talks and over 20 trainings/stakeholder engagements, see details and links on full CV and LinkedIn
  - *https://www.linkedin.com/in/asher-siebert-7016065/*
  - *https://www.researchgate.net/profile/Asher_Siebert2*
  - *https://orcid.org/0000-0002-7111-8722*

PERSONAL

father, musician: trumpet, piano, composition; klezmer, classical, jazz