Asher Siebert, PhD
Applied Climate Scientist

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Phone (Cell): 845-584-6428

EDUCATION

Rutgers University (2009-2015)
Ph.D Geography; Jan 2015
Dissertation title: ***Assessing the Viability of Index Insurance as an Adaptation Tool in a Changing Climate Context: Case Study in the West African Sahel***
https://rucore.libraries.rutgers.edu/rutgers-lib/46438/
Qualifying exams: hydrology, climatology, climate adaptation/insurance, geography
Adviser: Professor David Robinson

Columbia University (2005-2006)
M.A. Climate and Society; Oct 2006

Massachusetts Institute of Technology/Woods Hole Oceanographic Institute (2002-2004) (MIT-WHOI) Joint Program
graduate study in physical oceanography

Princeton University (1998-2002)
B.A. Geosciences; Jun 2002
Cum Laude, Sigma Xi
Undergraduate thesis title: ***The Response of ENSO to Global Warming***

PROFESSIONAL AND RESEARCH EXPERIENCE

Nov 2024-present: **Climate Analytics, *Senior Scientist on Loss and Damage,*** New York, NY – lead and advise research and stakeholder-engaged projects to help vulnerable nations address their climate-risk related loss and damage

- Team lead - Loss and Damage Policy for St. Kitts and Nevis under Nationally Determined Contribution (NDC) Partnership Action Fund (PAF) (2024-2026) – the first such strategy in the Caribbean
- Contributor to International Climate Initiative (IKI) Building our Loss and Damage (BOLD) Response Project – Pacific Small Island Developing States (2025-2026)
- Contributor to Horizon Europe Socio-economic Pathways, Adaptation and Resilience to a Changing Climate in Europe (SPARCCLE) project (2026)
- Contributor to Network for Greening the Financial Sector (NGFS) (2025)
- Contributor to Ambition Blue Carbon Project (2025)
- Presented the state of climate science on loss and damage to the UN Office for the High Representative of Least Developed Countries, Landlocked Developing Countries and Small Island Developing States (UNOHRLLS) (2024)

Sep-Dec 2024: **Columbia University Climate School**, ***Teaching Assistant*****,** NY, NY CLMTGR 5001, Dynamics of Climate Variability and Change, (graduate course, MA program in Climate and Society)**,** (65 students, professors Mingfang Ting and Michela Biasutti)
Sep-Dec 2023: **ClimateBase, *Fellow*** – professional development forum for climate professionals
Sep 2023-Dec 2024: **Ivy Bound, *Tutor*,** SAT, GRE and STEM subjects

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Jun 2016 – Dec 2022; **International Research Institute for Climate and Society (IRI), Columbia University,** ***Senior Staff Associate*** *(Jul 2019-Dec 2022),* ***Postdoctoral Research Scientist*****,** (*Jun 2016-Jun 2019),* Palisades, NY

Funding Agency: **World Bank (2022)**

Project: **Accelerating Impacts of CGIAR** Climate Research for Africa **(AICCRA)**

- Developed curriculum for graduate level course on climate risk management for agriculture in Ethiopia (began under ACToday) 2021-2022
- Supported training of partners in AICCRA countries (Senegal, Mali, Ghana) in understanding IRI's Python-based Climate Predictability Tool (PyCPT)

Funding Agency: **Columbia World Projects (CWP) (2018-2022)**

Project: **Adapting Agriculture to Climate Today for Tomorrow (ACToday)**

- Developed curriculum materials for climate foundations for multiple trainings with ACToday partners and ACToday Climate Services Academy (2020-2022)
- Analyzed predictability of seasonal characteristics in Ethiopia and collaborated with/trained Ethiopian partners (2018-2022)
- Analyzed predictability of seasonal rainfall characteristics in Senegal and collaborated with/trained Senegalese partners (2020-2022)
- Analyzed climatological rainfall, wind and moisture flux for Ethiopia, Senegal, Vietnam, Bangladesh, Colombia and Guatemala (2018-2020)
- Trained meteorological staff in Bangladesh on the use of Climate Data Tools (2019)

Funding Agency: **World Meteorological Organization (WMO) (2020-2021)**

Project: **West Africa Climate Risk and Early Warning Systems (CREWS)**

- Developed survey for and wrote report on sub-seasonal forecast capabilities in West Africa as part of Climate Risk and Early Warning Systems (CREWS) initiatives (2020-2021)
- Researched seasonal predictability of monsoon rainfall across West Africa (2020)

Project: **Global Framework for Climate Services (GFCS)**

- Researched seasonal predictability of monsoon rainfall in Malawi, Tanzania and Zambia (World Bank funding) using Next Generation Python based seasonal forecasting and conducted trainings with National Meteorological services (2020)

Funding Agency: **World Food Programme (WFP) (2019-2022)**

Project: **Forecast Based Financing (FbF)**

- developed forecast system for Niger rainy season for Forecast based Financing (FbF) maproom (2020-2022) - also supported by UN Organization for Coordination of Humanitarian Affairs (OCHA)
- rainfall-based monitoring trigger activated 9.5 million USD payout through UN Central Emergency Response Fund (CERF) in Niger in August/September 2022
- conducted remote training with national meteorological service in Niger and made refinements to FbF system September-December 2022
- conducted interviews with stakeholders and wrote scoping report on FbF potential in Zimbabwe (2020); project expected to be funded by UN Green Climate Fund
- co-authored proposal for scoping analysis of FbF potential in Zimbabwe (2020)
- Reported on background climate analysis and forecast skill metrics in relation to Malawi Forecast based Financing project (2019)

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Funding Agency: **UK Department for International Development (DfID) (2016-2019)**

Project: **Weather and Climate Information Services for Africa (WISER)**

- Trained visitors from MeteoRwanda on use of Next Generation Python based seasonal forecasting (2019)
- Trained and collaborated with East African science visitors to IRI under Strengthening Climate Information Partnerships in East Africa (WISER-SCIPEA) project (2016)

Funding Agency: **US Agency for International Development (USAID) (2016-2019)**

Project: **Winrock International-USAID project on meteorological observation**

- Researched and wrote report on cost-effective approaches to meteorological observation in Africa (2017-2018)

Project: **Climate Change, Agriculture, and Food Security (CCAFS) Rwanda (project awarded African Climate-Smart Agriculture Project of the Year in 2018)**

- Trained staff at MeteoRwanda on seasonal forecasting, IRI tools and climate maprooms (2016-2019)
- Forecasted seasonal rainfall, onset, dry spell risk and rainy-day frequency for Rwanda for Sep-Dec and Mar-May rainy seasons (2016-2019)
- Evaluated climatology and variability for rainfall, temperature, winds, moisture flux, dry spell risk and rainy-day frequency for Rwanda for different seasons (2017-2019)

Project: **Climate Change, Agriculture, and Food Security (CCAFS) Africa Climate Services**

- Collaborated with regional partners in East Africa and West Africa for seasonal forecasting and food security issues (2016-2019)
- Informed and collaborated on flexible maprooms developed by the IRI data library team and trained regional partners regarding their interpretation (2016-2019) (for both CCAFS projects)
- Adviser: Dr. Andrew Robertson, Project PIs: Drs. Tufa Dinku, James Hansen and Daniel Osgood

Feb 2015-May 2016: **Princeton High Meadows Environmental Institute (HMEI) Climate Futures Initiative (CFI),** ***Postdoctoral Research Associate,*** Princeton, NJ

- Contributed to interdisciplinary research using the Regional Integrated Climate Economy (RICE) integrated assessment model to explore the impact of different climate change scenarios on income inequality
- Assessed the impact of different assumptions of climate damages and abatement costs on welfare optimal carbon tax
- Evaluated the impact of different population projections on welfare optimal carbon tax
- Investigated the health co-benefits and risks associated with climate change mitigation
- Lead professors/Advisers: Drs. Marc Fleurbaey and Robert Socolow

Jan 2015: **New Jersey Adapt Project,** ***Part Time Research Analyst,*** New Brunswick, NJ

- Analyzed historical and projected climate data for New Jersey with an emphasis on heat stress and heat related risks as part of the New Jersey Adapt Project

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- Presented results to NJ Adapt Science Advisors
- Project leads: Jeanne Herb, Dr. Marjorie Kaplan

Jun 2006-Dec 2008: **International Research Institute for Climate and Society (IRI), Columbia University, *Staff Associate*** *(Sep 2006 – Dec 2008)* and ***intern*** *(Jun-Aug 2006),* Palisades, NY
Funding Agency: **Swiss ReInsurance company**
Project: **Millennium Villages Project Drought Index Insurance Development**

- Analyzed station and regional climate data, satellite derived vegetation index, crop yield data and modeled crop yields in order to design drought index insurance/derivative contracts for the UN Millennium Villages in Africa, (a project in collaboration with the NGO Millennium Promise and Swiss Re)
- Investigated the impact of missing data on the skill of potential drought indices
- Evaluated the impact of climate change and near-term persistence on the threshold selection and threshold crossing behavior in potential drought indices
- Assessed climate statistics of two UN Millennium Villages in West Africa (Summer 2006)
- Supervisor: Dr. M. Neil Ward

Jun 2005-Jun 2006: **National Aeronautic and Space Administration - Goddard Institute for Space Studies (NASA-GISS), Center for Climate Systems Research (CCSR), *Science Intern, New York City Department of Environmental Protection (NYCDEP) Climate Change Task Force (CCTF),*** New York, NY

- Wrote chapter drafts on global and regional climate change relevant for NYC metro and watershed areas
- Developed GCM (global climate model) based probabilistic projections of temperature, precipitation and sea level rise for the New York City Metro region,
- Supervisors: Drs. Cynthia Rosenzweig and Radley Horton

Jan-Apr 2005: **Massachusetts Institute of Technology-United States Geological Survey (MIT-USGS) Science Impact Collaborative, *Affiliate***, Cambridge, MA

- Researched efforts regarding the role of joint fact finding and other collaborative processes in public stakeholder decisions involving scientific expert knowledge

Jun-Aug 2001: **Ohio State University**, **Ice Core Paleoclimatology Group, Byrd Polar Research Center (BPRC), *Intern***, Columbus, OH

- Developed age/depth relationship for Andean ice core from Sajama, Bolivia
- Analyzed stratigraphy for Kilimanjaro ice core
- Supervisor: Professor Lonnie Thompson

AWARDS

- *Nov 2023*: included in ***Marquis Who's Who in America*** publication
- *Sept-Dec 2023*: ***ClimateBase Fellow*** Cohort 4

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- *Feb 2014*: Finalist ***National Oceanic and Atmospheric Administration Postdocs Applying Climate Expertise (NOAA-PACE)***
- *Mar 2013*: Dissertation Teaching Award, ***Rutgers University Graduate School***
- *Feb 2012*: John R. Mather Paper of the Year Award, ***Climate Specialty Group (CSG), Association of American Geographers (AAG)***, New York, NY
- *Oct 2011:* Outstanding Poster Award, ***World Climate Research Program Open Science Conference (WCRP OSC),*** Denver CO
- *Jun 2002:* Edward Sampson 1914 Prize in Environmental Geosciences Research, ***Princeton University Geosciences Department***

PROPOSALS AND RESEARCH LEADERSHIP

Sep 2025 submitted (***Proposal Contributor***) to *Horizon Europe,* Pathways for Low-carbon, just and Equitable Development Globally and in Europe (PLEDGE); Contributor on multi-component proposal with consortium of partners including Climate Analytics, Potsdam Institute for Climate Impact Research (PIK), Oxford, PBL Netherlands, The Energy and Resources Institute (TERI), WISE Europe, KU Leuven, and Utrecht University

Mar 2022 submitted, *May 2022* short listed (***Principal Investigator/Author***) to *Wellcome Trust (Digital Technology Development Award for Climate Sensitive Infectious Diseases)*; Development of a Climatic Risk Mapping Tool for Respiratory and Water-borne Disease from sub-seasonal to near-term Climate Change Timescales.

Mar 2022 submitted, (***Co-Investigator***) to *National Aeronautics and Space Administration (NASA) Research Opportunities in Space and Earth Sciences (ROSES) Sub-seasonal to Seasonal Hydrometeorological Prediction (S2S HYD)*; Subseasonal to Seasonal Prediction of Hydrological Land Surface Variables over the Contiguous U.S. During Winter.

Feb 2021 submitted, (***Principal Investigator***) to *National Oceanic and Atmospheric Administration (NOAA) Extreme Heat Risk Initiative (EHRI);* Forecasting Damaging California Heat Waves at Seasonal to Sub-Seasonal Scales for Policy and Early Warning Applications.

Jan-Jun 2020; (***Co-Investigator),*** Specialized Technical Services for Forecast-based Financing under the R4 Rural Resilience Initiative in Zimbabwe, *World Food Programme (WFP)*

2020-2022; (***Co-Leader),*** IRI's internal energy group; sought to apply IRI's expertise and forecast methods to the energy sector, sought research collaboration with Columbia Global Center for Energy Policy, submitted summary document for IRI management review, held internal paper discussions, consulted with scholars and private sector professionals working at the climate-energy nexus

PEER REVIEWED ARTICLES

2023; Woyessa, A., **A. Siebert**, A. Owusu, R. Cousin, T. Dinku, and M. Thomson: El Niño and Other Climatic Drivers of Epidemic Malaria in Ethiopia: New Tools for National Health Adaptation Plans, *Malaria Journal*. https://doi.org/10.1186/s12936-023-04621-3

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2022; Safari, B., J. N. Sebaziga, and **A. Siebert:** Evaluation of CORDEX Regional Climate Models in Simulating Mean Seasonal Rainfall in Rwanda, *International Journal of Climatology.* https://doi.org/10.1002/joc.7891

2022; Teshome, A., J. Zhang, Q. Ma, S. Zebiak, T. Dejene, T. Dinku, **A. Siebert**, J. Seid, and N. Acharya. Skill Assessment of North American Multi-Models Ensemble (NMME) for June-September (JJAS) Seasonal Rainfall over Ethiopia, *Atmospheric and Climate Sciences,* 12, 54-73, https://doi.org/10.4236/acs.2022.121005

2021; Ehsan, M. A., M. Tippett, A. W. Robertson, M. Almazroui, M. Ismail, T. Dinku, N. Acharya, **A. Siebert**, J. Ahmed, A. Teshome, Seasonal Predictability of Ethiopian Kiremt Rainfall and Forecast Skill of ECMWF's SEAS5 Model. *Climate Dynamics,* 57, 3075-3091, https://doi.org/10.1007/s00382-021-05855-0

2021; Iyakaremye, V., G. Zeng, **A. Siebert,** X. Yang, Evaluation of contributing factors to the observed change in the past and projected surface temperature over Africa from CMIP6 simulations. *Atmospheric Research,* 254, https://doi.org/10.1016/j.atmosres.2021.105512

2019; **Siebert, A**., T. Dinku, F. Vuguziga, A. Twahirwa, D. M. Kagabo, J. DelCorral, A. W. Robertson, Evaluation of ENACTS-Rwanda; A new multi-decade, high-resolution rainfall and temperature dataset: Climatology, *International Journal of Climatology*, 39, 3104-3120, https://doi.org/10.1002/joc.6010

2019; Spears, D., Budolfson, M., F. Dennig, M. Fleurbaey, N. Scovronick, **A. Siebert**, and F. Wagner, Optimal Climate Policy and the Future of World Economic Development, *World Bank Economic Review,* 33, 21-40, https://doi.org/10.1093/wber/lhx016

2017; Scovronick, N., M. Budolfson, F. Dennig, M. Fleurbaey, **A. Siebert**, R. H. Socolow, D. Spears, and F. Wagner, Impact of Population Growth and Population Ethics on Optimal Mitigation, *Proceedings of the National Academy of Sciences,* 114, 12338-12343, https://doi.org/10.1073/pnas.1618308114

2017; Budolfson, M., F. Dennig, M. Fleurbaey, **A. Siebert** and R. Socolow, The Comparative Importance for Optimal Climate Policy of Discounting, Inequalities and Catastrophes, *Climatic Change,* 145, 481-494, https://doi.org/10.1007/s10584-017-2094-x

2016; **Siebert, A.**, Analysis of Index Insurance Potential for Adaptation to Hydroclimatic Risks in the West African Sahel, *Weather, Climate and Society,* 8, 265-283, https://doi.org/10.1175/WCAS-D-15-0040.1

2016; **Siebert, A.,** Analysis of the Future Potential of Index Insurance in the West African Sahel using CMIP5 GCM results, *Climatic Change,* 134, 15-28, https://doi.org/10.1007/s10584-015-1508-x

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2015; Dennig, F., M. Budolfson, M. Fleurbaey, **A. Siebert,** and R. Socolow, Inequality, Climate Change Impacts on the Future Poor and Carbon Prices, *Proceedings of the National Academy of Sciences,* 112, 15827-15832, https://doi.org/10.1073/pnas.151396711

2014; **Siebert, A.,** Hydroclimate Extremes in Africa: Variability, Observations and Modeled Projections, *Geography Compass,* 8, 351-367, https://doi.org/10.1111/gec3.12136

2014; **Siebert, A.,** and M. Neil Ward, Exploring the Frequency of Hydroclimate Extremes on the River Niger Using Historical Data Analysis and Monte Carlo Methods, *African Geographical Review*, publication online (November 2013), 33, 124-149, https://doi.org/10.1080/19376812.2013.854707

2011; **Siebert, A.**, and M. Neil Ward, Future Occurrence of Threshold Crossing Seasonal Rainfall Totals: Methodology and Application to Sites in Africa, *Journal of Applied Meteorology and Climatology*, 50, 560-578, https://doi.org/10.1175/2010JAMC2530.1

BOOK CONTRIBUTION(S)

2024; D. Pons, **A. Siebert**, Climate Services and Energy Production in Guatemala: Forecasting Streamflow in the Upper Samalá River Watershed, a chapter in **"Safeguarding Mountain Social-Ecological Systems: A Global Challenge, Volume 2"** eds. S. Schneiderbauer, J. Szarzynski and J. Schroder, Elsevier Publishing.

2019; Contributing author to **"Climate Information for Public Health Action"**, eds. M. C. Thomson and S. J. Mason, Routledge Publishing. https://www.routledge.com/Climate-Information-for-Public-Health-Action/Thomson-Mason/p/book/9781138069640

REPORTS, POLICIES AND TRAINING CURRICULA

2026, Government of Saint Kitts and Nevis, National Loss and Damage Strategy for Saint Kitts and Nevis (contributing author, along with S. Jattansingh, A. Sircar and J. Carter-Guy).

2026, A. K. Petersen, **A. Siebert**, S. Schmidt, Z. Zeller, and R. Martyr, Deliverable 4.1 Assessing Future Adaptation Potential and Needs to inform Sectoral Adaptation Pathways in Europe, SPARCCLE Socioeconomic Pathways, Adaptation and Resilience to Changing Climate in Europe.

2026, J. C. Gomez, **A. Siebert,** A. Sircar and F. Saeed. D4: Assessment of Climate Hazards, Risks, Impacts and Vulnerabilities in Key Sectors. Saint Kitts and Nevis NDC Partnership Action Fund. Climate Analytics.

2025, Jenkinson, V., and A. Cashman, National Water Policy for Saint Kitts and Nevis (contributor).

2025, Vyas, R., M. Schaeffer, Troubled Waters: Risks and Realities of Blue Carbon in Climate Action (contributor), https://climateanalytics.org/publications/troubled-waters-risks-and-realities-of-blue-carbon-in-climate-action

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2025, Zimmer, A., J. Anz, E. Byers, Y-L. Hwong, K. Kornhuber, R. Langer, M. Perrette, L. Quante, C. Schleussner, N. Schwind, **A. Siebert**, M. Werning, Physical Risks in the updated Climate Impact Explorer. Network for Greening the Financial System, https://www.ngfs.net/link-to-physical-risk-narrative-report

2025, **Siebert, A.,** J. C. Gomez, A. Sircar, S. Jattansingh and F. Saeed. D3: Loss and Damage Strategy Stakeholder Engagement Plan. Saint Kitts and Nevis NDC Partnership Action Fund. Climate Analytics.

2025, **Siebert, A.,** J. C. Gomez and A. Sircar. D2: Loss and Damage Baseline Assessment of Current Conditions and Previous Initiatives. Saint Kitts and Nevis NDC Partnership Action Fund. Climate Analytics.

2023, Dinku, T., A. Grossi, J. Hansen, G. Nsengiyumva, **A. Siebert**, S. Trzaska. Climate Risk Management in Agricultural Extension Facilitator's Guide. Palisades, NY, USA: International Research Institute for Climate and Society (IRI), Columbia Climate School. https://hdl.handle.net/10568/127006

2023, Dinku T., A. Grossi, J. Hansen, G. Nsengiyumva, **A. Siebert**, S. Trzaska, O. Mangen. Climate Risk Management in Agricultural Extension Handbook. Palisades, NY, USA: International Research Institute for Climate and Society (IRI), Columbia Climate School. https://doi.org/10.7916/47sy-bq17

2023, Dinku T., Grossi A., Hansen J., Nsengiyumva G., **Siebert A.**, Trzaska, S., Mangen, O.. Climate Risk Management in Agricultural Extension Reference Guide. Palisades, NY, USA: International Research Institute for Climate and Society (IRI), Columbia Climate School. https://doi.org/10.7916/mzaj-zj74

2022; Hansen, J., T. Dinku, S. Trzaska, **A. Siebert**, A. Grossi. Climate Risk Management in Agriculture (CRMA) Short Course Reference Guide. Accelerating the Impacts of CGIAR Climate Research for Africa (AICCRA). https://hdl.handle.net/10568/127019

2021; **Siebert A.**, S. Trzaska, A. W. Robertson, J. B. Migraine. The Current State of Sub-Seasonal to Seasonal (S2S) Forecasting Efforts in West Africa, IRI-WMO report.

2020; **Siebert, A.,** D. Osgood, N. Magima. Specialized Technical Services for Forecast based Financing under the R4 Rural Resilience Initiative in Zimbabwe Scoping Report, IRI-WFP.

2019; Contributing author, IRI Forecast Based Financing Report to World Food Programme

2018; **Siebert, A.,** T. Dinku and A. Curtis. Approaches to Combine Technologies for Weather Observation, Storage and Analysis, USAID-supported Assessing Sustainability and Effectiveness of Climate Information Services in Africa project. Washington, DC, USA; https://www.climatelinks.org/resources/approaches-combine-technologies-weather-observation-storage-and-analysis

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2018; Faniriantsoa, R., A. Curtis, T. Dinku. and **A. Siebert.** Approaches to Collect, Exchange, and Integrate National and Global Datasets, USAID-supported Assessing Sustainability and Effectiveness of Climate Information Services in Africa project. Washington, DC, USA; https://www.climatelinks.org/resources/approaches-collect-exchange-and-integrate-national-and-global-datasets

2018; Kipkogei, O., **A. Siebert,** P. Jordan, A. Jama, and J. Hansen. Advancing the use of gridded, online climate information for risk management in the Horn of Africa, Mombasa, Kenya. CCAFS Workshop Report. Copenhagen, Denmark: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS); https://cgspace.cgiar.org/handle/10568/92093

2018; **Siebert, A.,** A. Rose. Training and discussions on seasonal rainfall forecasts for MAM 2018 in Rwanda and SOND 2017 verification, Kigali, Rwanda. *CCAFS Workshop Report.* Wageningen, Netherlands: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS): https://cgspace.cgiar.org/handle/10568/92005

2017; **Siebert, A.**, DM Kagabo, and F. Vuguziga. Training Program on Seasonal Forecasting using the Climate Predictability Tool and the IRI Data Library, Kigali, Rwanda. *CCAFS Workshop Report.* Wageningen, Netherlands: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS); http://hdl.handle.net/10568/89105

2016; **Siebert A.,** DM Kagabo, and F. Vuguziga. Training and Development of Downscaled Seasonal Forecasts for Pilot Districts, Kigali, Rwanda. *CCAFS Workshop Report.* Copenhagen, Denmark: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS); http://hdl.handle.net/10568/77377

2009; Hellmuth M., D. Osgood, U. Hess, A. Moorhead, and H. Bhojwani, Climate and Society, No. 2: Index Insurance and Climate Risk: Prospects for Development and Disaster Management, (contributor), published by the International Research Institute for Climate and Society, Columbia University. https://iri.columbia.edu/Climate-and-Society-Issue-Number-2.pdf

2008; Lloyd, E. et al., The NYC DEP Climate Change Program Assessment and Action Plan (contributor - member of the Center for Climate Systems Research and the Climate Change Task Force). https://a860-gpp.nyc.gov/concern/parent/5m60qt19b/file_sets/3x816n970

ADVISING and TEACHING EXPERIENCE

CLIMATE AND SOCIETY ALUMN MENTOR

2020-2022; mentored ***Columbia University*** *Climate and Society* MA and ***Notre Dame*** *Civil and Environmental Engineering and Earth Sciences* PhD student Patrick Cho

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EXTERNAL ADVISER

Jun-Oct 2018; ***University of Rwanda*** *Atmospheric and Climate Science* MSc Thesis, "**Spatial-Temporal Variability and Projected Rainfall over Rwanda**", student: *Joseph Ndakize Sebaziga,* primary adviser: *Professor Safari Bonfils*

Jun-Oct 2018; ***University of Nairobi*** *Meteorology* MSc Thesis, "**Towards the Improvement of Seasonal Rainfall Prediction Skill over Rwanda**", student: *Mathieu M. Mbati,* primary adviser*: Professor Franklin Opijah*

COURSE INSTRUCTOR

Rutgers University

Spring 2014; **Geography 370: Climate and Society/Climate Risk Management,** (upper level undergraduate), developed and taught interdisciplinary course that addressed climate science, energy science and policy, adaptation and mitigation policy and discourse, and a suite of climate-sector interactions (Dissertation Teaching Award) (17 students)

Fall 2013; **English 101: Expository Writing,** (introductory undergraduate), 2 sections (22 students per section) – worked with students to hone expository writing skills

Summers 2012, 2011; **Geography 101: Earth Systems,** (introductory undergraduate), (~25 students each year)

TEACHING ASSISTANT

Columbia University

Fall 2024; **CLMTGR 5001, Dynamics of Climate Variability and Change,** (graduate course, for MA program in Climate and Society)**,** (65 students, professors Mingfang Ting and Michela Biasutti)

Spring 2010, 2009; **Earth and Environmental Sciences 4404: Regional Climate & Climate Impacts,** (graduate course, for MA program in Climate and Society)**,** (~45 students per year, instructor Dr. Neil Ward)

Rutgers University

Spring 2013, 2012 and Fall 2011; **Geography 102: Transforming the Global Environment,** (introductory undergraduate), Spring 2013 (~380 students, instructor Dr. Richard Nisa); Spring 2012 (~370 students, instructor Dr. Max Andrucki); Fall 2011 (~170 students, instructor Dr. Max Andrucki)

Fall 2012, 2010 and Spring 2011; **Geography 101: Earth Systems,** (introductory undergraduate) Fall 2012 (~280 students, instructor Dr. Usha Eleswarapu); Spring 2011 (~360 students, instructor Dr. Usha Eleswarapu); Fall 2010 (~300 students, professor Asa Rennermalm)

Princeton University

Spring 2002, 2001; **Geosciences 210: Natural Disasters,** (introductory undergraduate) (~35-40 students per year)

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Fall 2001; **Geosciences 225: Earth Systems,** (introductory undergraduate) (~25-30 students)

Center for Talented Youth, Johns Hopkins University site
Summer 1999; **Fast Paced High School Physics,** (~20 students)

TUTOR
2023-2024, 2009-2014; **Ivy Bound** (Math, Verbal and Writing) for Scholastic Aptitude Test (SAT), Graduate Record Exam (GRE) and academic subjects (calculus, physics and biology)

2005 (May/June); **Boston Learning Center** (Math and Science): for economically disadvantaged Boston area high school students

EDITORIAL/REVIEWING EXPERIENCE

Judge
2017, 2014: **John R. Mather Paper of the Year Award;** reviewed and ranked articles submitted to the AAG Climate Specialty Group's John R. Mather Paper of the Year Award competition

Special Reports Reviewer
2026: *Reviewer – IPCC AR7 WG1, Chapter 3*
2025: *Reviewer – IPCC Special Report on Climate Change and Cities*

Journal Reviewer
2026: *Regional Environmental Change; Theoretical and Applied Climatology*
2025: *Climate Risk Management; Discover Environment; Nature Communications; Theoretical and Applied Climatology; Discover Atmosphere; Regional Environmental Change; Bulletin of the National Research Centre; BMC Environmental Science; Scientific Reports*
2024: *Theoretical and Applied Climatology; Academia Environmental Sciences and Sustainability; Discover Atmosphere*
2022: *Atmospheric and Climate Sciences; International Journal of Climatology; Climate Services*
2021: *Cogent Environmental Science; Climate Services; International Journal of Climatology; East African Agricultural and Forestry Journal*
2020: *Frontiers in Earth Science; Agricultural and Forest Meteorology; International Journal of Climatology; Ecological Economics; African Geographical Review*
2019: *International Journal of Climatology; Emerging Markets, Finance and Trade*
2018: *Weather, Climate and Society; International Journal of Remote Sensing; Water Resources Research*
2017: *Journal of Climate; Global Environmental Change*
2016: *Journal of Applied Meteorology and Climatology*
2015: *International Journal of Pest Management*
2013: *Advances in Geosciences*

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Consultant/Editor
2019; **Routledge Publishing** M. C. Thomson and Mason S., Climate Information for Public Health Action.
2016-2017; **IRI** Enhancing National Climate Services (ENACTS) training manuals
2006; **Hinkle Charitable Fund** contributor to global warming email series

TRAININGS AND PROFESSIONAL COLLABORATION

*Jul 2026 (**4 days Basseterre, Saint Kitts and Nevis**)*

- Hosted/led stakeholder validation session for National Loss and Damage Strategy, NDC 3.0 and LT-LEDS (with Sasha Jattansingh, Arunima Sircar, Jheuel Carter-Guy, Robert Brecha and Rodrigo Narvaez) (Climate Analytics), and supported by the Climate Action Unit of the Ministry of Sustainable Development, Environment and Climate Action
- Held bilateral meetings with Ministry of Culture, Water Services Department, Department of Public Works and National Emergency Management Agency (NEMA)

Feb 2026 (***1 week Basseterre and Charlestown, Saint Kitts and Nevis***)

- Bilateral stakeholder engagement with ~30 stakeholder organizations spanning energy, water, meteorology, public works, physical infrastructure, disaster management, forestry, finance, credit union and Eastern Caribbean Central Bank (ECCB)
- Bilateral stakeholder engagement with Nevis Island Energy Utility (NEVLEC), Physical Planning, Disaster Management Department (NDMD), Water Department
- Hosted/led stakeholder workshop session on Loss and Damage Strategy, NDC 3.0 and LT-LEDS (with Camilo Gomez, Arunima Sircar, Sasha Jattansingh, Jan Sindt and Robert Brecha) (Climate Analytics), and supported by the Climate Action Unit of the Ministry of Sustainable Development, Environment and Climate Action

Oct 2025 (***1 week Basseterre, Saint Kitts and Nevis***)

- Bilateral stakeholder engagement with Department of Meteorology, NEMA, Departments of Energy, Water Services, Physical Planning, Environment, Agriculture, Marine Resources, Ministry of Health, Department of Public Works, Chamber of Industry and Commerce and Ministry of Social Development and Gender Affairs
- Hosted/led stakeholder workshop and validation session on draft Climate Change Policy, draft NDC Investment Plan and development of Loss and Damage Strategy (with Carlon Mendoza, Rodrigo Narvaez and Sisir Bhandari) (Climate Analytics), and supported by the Climate Action Unit of the Ministry of Sustainable Development, Environment and Climate Action

Mar-Apr 2025 (***3 days Saint George's, Grenada***)

- Attended Organization of Eastern Caribbean States (OECS) Nationally Determined Contributions Financing Initiative (NDCFI) Conference
- Co-Led Loss and Damage Session at OECS NDCFI conference with Sasha Jattansingh (Climate Analytics)

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Mar 2025 (***1 week Basseterre and Charlestown, Saint Kitts and Nevis***)

- Stakeholder engagement with Departments of Water Services, Statistics, Economic Affairs, Physical Planning and GIS, Marine Resources, Public Works, National Emergency Management Agency, Energy Utility (SKELEC), Saint Kitts Investment Promotion Agency, and Chamber of Commerce/Industry in St. Kitts
- Stakeholder engagement with Water Services Department, Nevis Disaster Management Department, Energy Utility (NEVLEC), Ministry of Health, Ministry of Education, Department of Environment in Nevis
- Hosted/led stakeholder workshop with thematic breakout groups
- Conducted stakeholder interviews along with Rodrigo Narvaez, Carlon Mendoza (Climate Analytics), Valerie Jenkinson, Adrian Cashman (external consultants) and Ivana Valdez and Sara Hernandez (NDC Partnership)

Mar 2025 (***2 weeks virtual***)

- Virtual stakeholder interactions with Departments of Meteorology, Environment, Energy Unit, Ministry of Social Development and Gender Affairs and Climate Action Unit in Saint Kitts and Nevis

Oct-Nov 2022 (***1 week virtual training – primarily French***)

- Trained and collaborated with partners at Niger's Direction de la Meteorologie Nationale (DMN), the West African Regional AGRHYMET center in the use of Python based Climate Predictability Tool (PyCPT) for forecasting sub-seasonal climate variables for drought related Forecast-based Financing project with WFP
- https://wiki.iri.columbia.edu/index.php?n=EnglishNiger-WFP-Oct.Nov2022
- https://wiki.iri.columbia.edu/index.php?n=FrancaisNiger-WFP-Oct.Nov2022

Jun 2021 ***(2 week virtual training)***

- Participated in and developed materials for training of trainers (ToT) with partners at Ethiopian National Meteorological Agency (NMA) and Ethiopian Institute for Agricultural Research (EIAR) on foundational climate materials; the NMA and EIAR staff will then conduct the trainings with Agricultural Development Agents (DAs)

Apr 2021 ***(1 week virtual training – primarily French)***

- Trained partners at Niger's Direction de la Meteorologie Nationale (DMN) and the West African Regional AGRHYMET center in the use of PyCPT and the theoretical basis of statistical forecasting
- https://wiki.iri.columbia.edu/index.php?n=NextGen.DMN

Apr 2021 ***(1 week virtual training – primarily French)***

- Trained partners at Senegal's Agence Nationale de l'Aviation Civile et de la Meteorologie (ANACIM) in the use of PyCPT; outgrowth of ongoing research collaboration with ANACIM meteorologists to refine seasonal predictions from early 2020 to present https://wiki.iri.columbia.edu/index.php?n=NextGen.ANACIM

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Mar 2021 ***(several day virtual workshop)***

- Shared seasonal forecast methodology with Direction de la Meteorologie Nationale du Niger (DMN) during workshop on Forecast Based Financing maproom tools

Oct-Nov 2020 ***(3 weeks virtual training)***

- Trained partners at the Zambia Meteorological Department (ZMD), Malawi Department of Climate Change and Meteorological Services (DCCMS) and Tanzania Meteorological Agency (TMA) on the use of PyCPT and the theoretical basis of statistical forecasting
- https://wiki.iri.columbia.edu/index.php?n=NextGen.ZMD
- https://wiki.iri.columbia.edu/index.php?n=NextGen.TMA
- https://wiki.iri.columbia.edu/index.php?n=NextGen.DCCM

Jul-Aug 2019 ***(6 weeks IRI, Palisades, NY)***

- Trained partners at MeteoRwanda and Ethiopia National Meteorological Agency (NMA) on the use of PyCPT and the theoretical basis of statistical forecasting
- https://wiki.iri.columbia.edu/index.php?n=NextGen.IRIJuly2019

Apr-May 2019 ***(1 week Dhaka, Bangladesh)***

- Trained partners at Bangladesh Meteorological Department (BMD) on the use of Climate Data Tools (CDT)
- Collected station data necessary for production of merged ENACTS data (Enhancing NAtional ClimaTe Services) at BMD

Mar 2019 ***(1 week Lilongwe, Malawi)***

- Engaged in bilateral scoping meetings with partners at the Malawi offices of the World Food Programme (WFP), UNDP, UNICEF, Red Cross, visiting specialists from UK DfID, the World Bank, the Department of Climate Change and Meteorological Services (DCCMS), Vulnerability Analysis Committee (MVAC), Center for Agricultural Research and Development (CARD), Department of Disaster Management Affairs (DoDMA), and Ministry of Agriculture, and representatives from the insurance sector
- Wrote overview report of Malawi climatology and descriptive and statistical guide to flexible forecast maproom interpretation for forecast based financing to Malawian partners in Lilongwe, Malawi

Mar 2019 ***(2 weeks Addis Ababa, Ethiopia)***

- Trained partners at Ethiopia National Meteorological Agency (NMA) on the use of the Climate Predictability Tool (CPT), the IRI Data Library and digital climate maprooms
- Collaborated with NMA partners on seasonal forecasts for March-May and June-September seasons (for seasonal rainfall, seasonal rainy-day frequency, dry spell risk and onset)

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Aug 2018 ***(2 weeks Kigali, Rwanda)***

- Trained partners at MeteoRwanda on the use of the Climate Predictability Tool (CPT), IRI Data Library and Climate maprooms
- Collaborated on seasonal forecasts for September-December 2018 season (for seasonal rainfall, seasonal rainy-day frequency, dry spell risk and onset) with partners from MeteoRwanda
- Advised MSc students' J. Ndakize and M. Mbati thesis drafts and attended presentation by Ndakize
- Attended 50th Greater Horn of Africa Climate Outlook Forum (GHACOF 50) in Kigali, Rwanda, and presented IRI seasonal forecast update to general GHACOF meeting

Feb 2018 ***(3 days Kigali, Rwanda)***

- Trained partners at MeteoRwanda and CIAT-Rwanda (International Center for Tropical Agriculture) on forecasting methods
- Collaborated with partners on seasonal forecasts for March-May 2018 season and verification for September-December 2017 season (including seasonal total, rainy day frequency and onset date)

Feb 2018 ***(2 days Mombasa, Kenya)***

- Attended GHACOF 48 and presented IRI seasonal forecast update to general GHACOF meeting
- Presented at specialized working dinner after the GHACOF in Mombasa to highlight IRI agricultural maprooms to agricultural user representatives from the GHA region

Aug-Sep 2017 ***(3 weeks Kigali, Rwanda)***

- Trained partners at MeteoRwanda on the use of climate maprooms, IRI Data Library tools, CPT and seasonal to sub-seasonal (S2S) forecasting
- Evaluated trainee responses to group exercises and issued certificates for the above-mentioned training
- Collaborated on seasonal forecasts for SOND season (including seasonal total, rainy day frequency and onset date) with partners from MeteoRwanda and CIAT-Rwanda
- Collaborated on water satisfaction index maprooms for selected crops with Rwanda Agriculture Board

Aug 2017 ***(1 week Zanzibar, Tanzania)***

- Attended GHACOF 47
- Helped to coordinate/facilitate training on IRI Data Library forecast maprooms during Climate Services for Resilient Development (CSRD) workshop

Apr 2017 ***(1 week Kigali, Rwanda)***

- Discussed/trained partners at MeteoRwanda, CIAT-Rwanda and Rwanda Agriculture Board) in the use of Climate Predictability Tool (CPT) for forecasting and the use of digital maprooms for climate services applications

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Mar 2017 ***(1 week Nairobi, Kenya)***

- Collaborated with scientists from IGAD Climate Prediction and Applications Center (ICPAC) on facilitating rolling monthly forecasts for the Greater Horn of Africa region
- Discussed developments of and trained partners in the use of maprooms for seasonal prediction and daily derived climate variables at ICPAC

Dec 2016 ***(1 week IRI, Palisades, NY)***

- Collaborated with scientists from the Agricultural, Hydrological and Meteorological Agency (AGRHYMET) and ANACIM on aspects of seasonal forecasting for West Africa

Nov 2016 ***(5 weeks IRI, Palisades, NY)***

- Trained/collaborated with six meteorologists/climate scientists from East Africa on CPT, IRI maprooms and seasonal forecasting under UKDfID WISER-SCIPEA project

Aug-Sep 2016 ***(1 week Kampala, Uganda)***

- attended the GHACOF 44 and related side events

Aug-Sep 2016 ***(1 week Kigali, Rwanda)***

- Developed seasonal forecasts for Rwanda and downscaled information for specific locations within Rwanda
- Collaborated with and trained partners from MeteoRwanda and CIAT-Rwanda on seasonal rainfall forecasting for September-December 2016 season using CPT

Jul-Aug 2010 ***(2 weeks Niamey, Niger)***

- Met with experts from African Center for Meteorological Application to Development (ACMAD), Agricultural, Hydrologic and Meteorological Agency (AGRHYMET), Niger Basin Authority (NBA), International Crop Research Institute for the Semi-Arid Tropics (ICRISAT) and United Nations Development Program Global Environmental Facility (UNDP-GEF)
- Researched and discussed prospects for using index insurance as a climate risk management strategy for the West African Sahel

ORAL CONFERENCE PRESENTATIONS

Jun 2025: **A. Siebert,** Climate Related Loss and Damage with a Case Study in the Caribbean, *World Congress on Environmental Science and Climate Change*, Zurich, Switzerland and online. https://environmentalscience.inovineconferences.com/environmental-science-conference-switzerland-2025/speakers.php

Jun 2023: A. Woyessa, **A. Siebert**, A. Owusu, R. Cousin, T. Dinku, and M. Thomson. El Nino and Other Climatic Drivers of Epidemic Malaria in Ethiopia: New Tools for National Health Adaptation Plans. *American Geophysical Union* Chapman Conference on Climate and Public Health in Africa, Washington, DC.

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https://agu.confex.com/agu/22chapman1/meetingapp.cgi/Paper/1232747

Jan 2023: A. W. Robertson, Á. Muñoz, M. A. Ehsan, B. Singh, **A. Siebert**, S. Trzaska, T. Dinku, J. W. Hansen, K. Hall, A. Grossi, and W. Baethgen, Enhancing Climate Information Services in Africa Through Next Generation Seasonal and Sub-Seasonal Climate Forecasts, *American Meteorological Society,* Denver, CO.
https://ams.confex.com/ams/103ANNUAL/meetingapp.cgi/Paper/420774

Jun 2022: **A. Siebert**, B. Singh, M. A. Ehsan, S. Ouni, Y. T. Tekeste, R. Cousin, I. Khomyakov, A. Kaplan and D. Osgood, Forecast-based Financing for Food Security Interventions in Africa: Case Studies in Djibouti, Ethiopia, Lesotho, Madagascar and Niger, *International Conference on Time Series and Forecasting (ITISE)*, Canary Islands, Spain and virtual due to COVID: https://itise.ugr.es/PresentacionPDF/ITISE2022_73.pdf

Jul 2021: **A. Siebert**, R. Cousin, S. Ouni, A. Vadillo, D. Osgood, R. Faniriantsoa, M. Nouhou, K. Lawan, L. Diallo, K. Boubacar, Forecast-based Financing for Food Security Interventions in Niger, *International Conference on Time Series and Forecasting (ITISE)*, Canary Islands, Spain and virtual due to COVID.

Dec 2020: **A. Siebert,** S. Trzaska, A. W. Robertson, Predicting Seasonal Climate Characteristics Over Senegal using a New Multi-Model Approach, *American Geophysical Union*, virtual due to COVID.
https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/716420

Jan 2018: **A. Siebert**, T. Dinku, F. Vuguziga, A. Twahirwa, D. Kagabo, S. Mason, A. Robertson, J. DelCorral, R. Cousin, Climatology and seasonal forecasting analysis from a new multi-decade high-resolution rainfall and temperature dataset for Rwanda, *American Meteorological Society*, Austin, TX:
https://ams.confex.com/ams/98Annual/webprogram/Paper333861.html

Sep 2016: Scovronick, N., M. Budolfson, F. Dennig, M. Fleurbaey, **A. Siebert**, R. Socolow, D. Spears, F. Wagner, A modified RICE integrated assessment model that includes the health co-benefits of CO2 mitigation, *International Society for Environmental Epidemiology,* Rome, Italy.
https://ehp.niehs.nih.gov/doi/abs/10.1289/isee.2016.3483

Mar 2016: **A. Siebert**, Analysis of Future Potential of Index Insurance in West Africa using CMIP5 GCM Results, Hydroclimatology session, *Association of American Geographers,* San Francisco, CA.

Jul 2015: M. Fleurbaey, F. Dennig, M. Budolfson, **A. Siebert**, and R. Socolow, Inequalities, Damages and Mitigation: The Importance of Identifying the Victims of Climate Change, *Our Common Future Under Climate Change,* Paris, France.

Jun, 2015: F. Dennig, M. Budolfson, M. Fleurbaey, **A. Siebert** and R. Socolow, The Importance of Modeling Intraregional Inequalities and Distribution of Climate Damages, *A Symposium on Climate Ethics and Climate Economics,* Graz, Austria.

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Apr 2015: **A. Siebert**, Analysis of Future Potential of Index Insurance in West Africa using CMIP5 GCM Results, Agriculture in a Changing Climate session, *Association of American Geographers,* Chicago, IL.

Apr 2014: **A. Siebert**, and M. Neil Ward, Assessing the Sensitivity and Viability of Index Insurance as an Adaptation Tool in a Changing Climate Context: Case Study in the West African Sahel, Climate Change and Uncertainty at the Livelihood-Landscape Nexus in Africa, *Association of American Geographers*, Tampa, FL.

Feb 2014: **A. Siebert**, and M. Neil Ward, Assessing the Sensitivity and Viability of Index Insurance as an Adaptation Tool in a Changing Climate Context: Case Study in the West African Sahel, Statistical Techniques for Quantification of Climate Extremes Session, *American Meteorological Society*, Atlanta, GA.
https://ams.confex.com/ams/94Annual/webprogram/Paper238183.html

Apr 2013: **A. Siebert**, and M. Neil Ward, Exploring the Frequency of Hydroclimate Extremes on the Niger River Using Monte Carlo Methods, Hydroclimatology Session, *Association of American Geographers*, Los Angeles, CA.
https://ams.confex.com/ams/93Annual/webprogram/Paper221321.html

Jul 2012: **A. Siebert**, and M. Neil Ward, Exploring the Frequency of Hydroclimate Extremes on the Niger River Using Monte Carlo Methods, *African Monsoon Multidisciplinary Analysis* (AMMA) meeting, Toulouse, France.
http://cnfcg-colloque2012.ipsl.fr/data/documents/Pr8A_8_Siebert.pdf

Jul 2012: M. N. Ward, **A. Siebert,** and O. Ndiaye, Decadal to Multidecadal Variation in the Sahel Rainfall Since 1950 and Associated Changes in the Frequency of Threshold Crossing Seasonal Rainfall Totals, *African Monsoon Multidisciplinary Analysis* (AMMA), Toulouse, France. http://amma-conf2012.ipsl.fr/data/documents/Pr6B_1_Ward.pdf

Feb 2012: **A. Siebert**, and M. Neil Ward, Exploring the Frequency of Hydroclimate Extremes on the Niger River Using Monte Carlo Methods, Rainfall Session, *Association of American Geographers*, New York, NY.

Feb 2012: **A. Siebert**, M. Neil Ward, Future Occurrence of Threshold Crossing Seasonal Rainfall Totals: Methodology and Application to Sites in Africa, **Paper of the Year**, Climate Specialty Group, *Association of American Geographers*, New York, NY.

Dec 2011: O. Ndiaye, M. N. Ward, and **A. Siebert**, The Sahel Region of West Africa: Examples of Climate Analyses Motivated by Drought Management Needs*, American Geophysical Union*, San Francisco, CA.
https://ui.adsabs.harvard.edu/abs/2011AGUFMGC33C..07N/abstract

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Apr 2011: **A. Siebert**, Opportunities and Obstacles for Climate Risk Management via Insurance in the West African Sahel, Double Exposures Session, *Association of American Geographers*, Seattle, WA.

Apr 2010: **A. Siebert**, M. Neil Ward, Estimating 30-Yeah Ahead Statistics of Extreme Low Seasonal Rainfall Totals for Risk Management Applications, Drought Session, *Association of American Geographers*, Washington, DC.

Oct 2006: V. Gornitz, R. Horton, **A. Siebert** and C. Rosenzweig, Vulnerability of New York City to Storms and Sea Level Rise, *Geographic Society of America*, Philadelphia, PA.
https://pubs.giss.nasa.gov/abs/go07300k.html

May 2002: Class publication/poster, GEO 499, Princeton University, Fall Semester, 2001-2002: G. van der Vink, S. Apgar, A. Batchelor, C. Carter, D. Gail, A. Jarrett, N. Levine, W. Jason Morgan, M. Orlikowski, T. Pray, M. Raymar, **A. Siebert**, T. W. Shawa, C. Wallace, US Vulnerability to Natural Disasters, *United States Senate Hazards Caucus*, Washington, DC.
https://hazardscaucus.org/events/-/media/DD28B968B9154E88A844BC913D06C06B.ashx

CONFERENCE ROLES

Session Lead/Chair/Organizer
Apr 2025: OECS NDCFI, Grenada co-lead with S. Jattansingh
Jun 2022: ITISE Conference, Chair: Time Series Analysis with Computational Intelligence
Apr 2014: Association of American Geographers, Tampa, FL, Chair: *Climate change and uncertainty at the livelihood-landscape nexus in Africa session,* Organizer: *Climate Risk Management*
Panelist: *Mar 2024: Loyola University Chicago Climate Change Conference*
Attendee: *Jun 2025: Earth Observation Summit, Jul 2021: SciPy Conference*

WORKSHOP PAPERS

Oct 2020: **A. Siebert,** S. Trzaska, A. Roberston, Seasonal Climate Prediction and Communication Over Senegal using a Multi-Model System, *National Oceanic and Atmospheric Administration (NOAA) Climate Diagnostics and Prediction Workshop (CDPW)*, virtual, https://www.cpc.ncep.noaa.gov/products/outreach/CDPW/45/sessions/presentations/session2_Room8_A.pdf

Apr 2012: **A. Siebert**, and M. Neil Ward, Exploring the Frequency of Hydroclimate Extremes on the Niger River Using Monte Carlo Methods, *Interdisciplinary PhD Workshop on Sustainable Development*, New York, NY

Mar 2009: E. Holthaus, **A. Siebert**, M. N. Ward, W. Baethgen, M. Brown, D. Osgood, and M. Indeje, Climate Impact Indices for Drought Risk Management, Focusing on Index Insurance and the Millennium Villages Project sites in Africa, *Climate Prediction and Applications Science Workshop*, sponsored by the *American Meteorological Society*, Norman, OK

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Oct 2008: A. M. Greene, L. Goddard, M. N. Ward, **A. Siebert**, M. Hellmuth, and W. Baethgen, Climate Change One Decade at a Time, *Technical Issues in Index Insurance Workshop*, IRI, Columbia University, Palisades, NY
https://iri.columbia.edu/~deo/insurance_class_reading/Climate%20change%20one%20decade%20at%20a%20time.pdf

Oct 2008: P. Ceccato, M. Brown, C. Funk, C. Small, E. Holthaus, **A. Siebert** and M. N. Ward, Remote Sensing – _Vegetation, *Technical Issues in Index Insurance Workshop*, IRI, Columbia University, Palisades, NY
https://iri.columbia.edu/~deo/insurance_class_reading/Remote%20Sensing%20-%20Vegetation.pdf

POSTERS

May 2026: Gomez-Zapata, J. C., **A. Siebert**, R. Martyr, M. Guerra and M. Schaeffer. Storyline-Based Modelling of Cascading Critical Infrastructure Impacts and Recovery in Small Island Developing States, *European Geophysical Union General Assembly*, Vienna, Austria and online.
https://meetingorganizer.copernicus.org/EGU26/EGU26-15223.html

Sep 2025: Gomez-Zapata, J. C., R. Martyr, **A. Siebert**, Addressing Systemic Risks and Adaptation: Ongoing Strategies in Caribbean Small Island Developing States, *Systemic Risks Conference and Workshop*, Hamburg, Germany.

May 2025: **A. Siebert,** Potential Index Insurance Changes under Climate Change in St. Kitts and Nevis: A Case Study Using Monte Carlo methods, observational and GCM data, *European Geophysical Union General Assembly*, Vienna, Austria and online.
https://doi.org/10.5194/egusphere-egu25-14530

Dec 2021: **A. Siebert,** P. Ryser, D. Ndiaye, L. Diop, A. Mbengue, A. Sal, O. Konte, O. Ndiaye, S. Trzaska, A. W. Robertson, J. Hansen, B. Singh, R. Cousin, R. Faniriantsoa, A Multi-Model Approach to Forecasting Seasonal Rainfall Characteristics in Senegal, *American Geophysical Union*, New Orleans, LA and virtual due to COVID.
https://ui.adsabs.harvard.edu/abs/2021AGUFM.H55G0813S/abstract

Jan 2020: **A. Siebert**, M. Mbati, N. Acharya, A. Gahigi, A. Munoz, Forecasting Seasonal Rainfall Characteristics in Rwanda Using NextGen Python-based Climate Predictability Tool, *American Meteorological Society,* Boston, MA
https://ams.confex.com/ams/2020Annual/webprogram/Paper366849.html

Dec 2019: A. Munoz, A. Robertson, S. Mason, L. Goddard, D. Pons, T. Turkington, N. Acharya, **A. Siebert**, X. Chourio, NextGen: A Next-Generation System for Calibrating, Ensembling and Verifying Regional Seasonal and Subseasonal Forecasts, *American Geophysical Union*, San Francisco, CA
https://agu.confex.com/agu/fm19/meetingapp.cgi/Paper/581954

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Dec 2018: **A. Siebert**, Comparison of the Tercile and Probability Distribution Formats of Seasonal Forecast Information for Climate Services Applications, *American Geophysical Union,* Washington, DC https://cgspace.cgiar.org/handle/10568/100213

Dec 2018: **A. Siebert**, Comparison of the Tercile and Probability Distribution Formats of Seasonal Forecast Information for Climate Services Applications, *Columbia University Postdoctoral Research Symposium*, New York, NY

Nov 2018: **A. Siebert**, Comparison of the Tercile and Probability Distribution Formats of Seasonal Forecast Information for Climate Services Applications, *Rutgers University Climate and Society Symposium,* New Brunswick, NJ

Apr 2018: **A. Siebert**, E. Gawthrop, ENACTS Maprooms, poster showcasing the ENACTS project during visit from Columbia Earth Institute officials, IRI, Palisades, NY

Nov 2017: **A. Siebert**, T. Dinku, F. Vuguziga, A. Twahirwa, D. Kagabo, S. Mason, A. Robertson, J. DelCorral, R. Cousin, Climatology and Seasonal Forecasting Analysis from a new Multi-Decade High-Resolution Rainfall and Temperature Dataset for Rwanda, *Rutgers University Climate and Society Symposium,* New Brunswick, NJ
https://climatechange.rutgers.edu/docman-list/events/symposia-past-events/symposium2017/622-rutgers-climate-symposium-poster-2017/file

Jan 2017: **A. Siebert,** F. Vuguziga, Seasonal Forecasting and Climatology Analysis for Food Security Applications in Rwanda, *American Meteorological Society*, Seattle, WA
https://ams.confex.com/ams/97Annual/webprogram/Paper314524.html

Nov 2016: **A. Siebert,** F. Vuguziga, Seasonal Forecasting and Climatology Analysis for Food Security Applications in Rwanda, *Rutgers University Climate and Society Symposium,* New Brunswick, NJ
https://climatechange.rutgers.edu/docman-list/miscellaneous/532-asherbsiebert2016-582e760d47687/file

Apr 2016: Spears, D., M. Budolfson, F. Dennig, M. Fleurbaey, N. Scovronick, **A. Siebert**, F. Wagner, Future Population Growth and Optimal Climate Policy, *Population Association of America*, Washington, DC
https://paa.confex.com/paa/2016/meetingapp.cgi/Paper/5608

Mar 2016: F. Dennig, M. Budolfson, M. Fleurbaey, **A. Siebert**, and R. Socolow, Is There a Reason for Strong Mitigation? The Role of Time Preference, Inequality Aversion and Catastrophes, *Modeling a Living Planet: Symposium Honoring Jorge Sarmiento*, Princeton, NJ

Nov 2015: F. Dennig, M. Budolfson, M. Fleurbaey, **A. Siebert**, and R. Socolow, Is There a Reason for Strong Mitigation? The Role of Time Preference, Inequality Aversion and Catastrophes, *Rutgers University Climate and Society Symposium*, New Brunswick, NJ

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Jul 2015: F. Dennig, M. Budolfson, M. Fleurbaey, **A. Siebert**, and R. Socolow, Is There a Reason for Strong Mitigation? The Role of Time Preference, Inequality Aversion and Catastrophes, *Our Common Future Under Climate Change,* Paris, France

Nov 2014: **A. Siebert**, Analysis of Future Potential of Index Insurance in West Africa Using CMIP5 GCM Data, *Rutgers University Climate and Society Symposium*, New Brunswick, NJ

Oct 2013: **A. Siebert** and M. Neil Ward, Developing Climate Impact Assessments in an Idealized Case Study of Flood/Drought Index Insurance in the West African Sahel, *Africa Climate Conference,* Arusha, Tanzania

Jan 2013: **A. Siebert**, and M. Neil Ward, Exploring the Frequency of Hydroclimate Extremes on the Niger River Using Monte Carlo Methods, Drought Prediction and Applications from a Hydrological Science Perspective, *American Meteorological Society*, Austin, TX https://ams.confex.com/ams/93Annual/webprogram/Paper221321.html

Nov 2012: **A. Siebert**, and M. Neil Ward, Exploring the Frequency of Hydroclimate Extremes on the Niger River Using Monte Carlo Methods, *Rutgers University Climate and Society Symposium*, New Brunswick, NJ
https://climatechange.rutgers.edu/docman-list/events/symposia-past-events/november-9-2012/114-asher-siebert-poster/file

Oct 2011: **A. Siebert**, M. Neil Ward, Future Occurrence of Threshold Crossing Seasonal Rainfall Totals: Methodology and Application to Sites in Africa, *World Climate Research Program Open Science Conference*, Denver, CO
https://www.wcrp-climate.org/conference2011/posters/C39/C39_Siebert_TH149A.pdf

Sep 2010: **A. Siebert**, M. N. Ward, Estimating Future Occurrence Statistics of Threshold-Crossing Seasonal Rainfall Totals: Methodology and Application to Sites in Africa, *UNESCO-WCRP-CLIVAR Workshop on Metrics and Methodologies of Estimation of Extreme Climate Events*, UNESCO headquarters, Paris, France

Jan 2008: **A. Siebert**, M. N. Ward, O. Ndiaye and P. Kangah, Statistical Characterization of the Dry Spell Risk of the West African Monsoon from Meteorological Station Data, *American Meteorological Society*, New Orleans, LA
https://ams.confex.com/ams/88Annual/webprogram/Paper134720.html

Jan 2008: M. N. Ward, E. Holthaus, **A. Siebert**, D. Osgood, Index Insurance for Drought in the Millennium Villages Project, *American Meteorological Society*, New Orleans, LA
https://ams.confex.com/ams/88Annual/webprogram/Paper134444.html

Jan 2006: Leader of student poster effort: B. Chamberlin, S. Chidzambwa, D. N. Fernando, J. Green, A. Hannon, R. Harris, E. Holthaus, K. Morebotsane, I. Ramirez, **A. Siebert**, K. Underwood, Hurricane Katrina: Historic Disaster, National Tragedy, *American Meteorological Society*, Atlanta, GA

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Oct 2005: B. Chamberlin, S. Chidzambwa, D. N. Fernando, J. Green, A. Hannon, R. Harris, E. Holthaus, K. Morebotsane, I. Ramirez, **A. Siebert**, K. Underwood, Hurricane Katrina: Historic Disaster, National Tragedy, Lamont Doherty Open House, Palisades, NY

Jan 2004: **A. Siebert**, The Thermohaline Circulation Under Buoyancy and Energy Constraints in a Simple Coupled Box Model, *American Geophysical Union Ocean Sciences Conference,* Portland, OR

Jun 2002: Class publication/poster, GEO 499, Princeton University, Fall Semester, 2001-2002: G. van der Vink, S. Apgar, A. Batchelor, C. Carter, D. Gail, A. Jarrett, N. Levine, W. Jason Morgan, M. Orlikowski, T. Pray, M. Raymar, **A. Siebert**, T. W. Shawa, C. Wallace, US Vulnerability to Natural Disasters, *The American Geophysical Union*
https://ui.adsabs.harvard.edu/abs/2002AGUSM.H41A..17V/abstract

LECTURES/PRESENTATIONS/SPEAKING

- *October 2026:* Climate and Sustainability practitioner, Columbia Sustainability Careers Reception, New York, NY
- *July 2026:* ***Saint Kitts and Nevis Loss and Damage Strategy Validation Workshop***, S. Jattansingh, **A. Siebert**, A. Sircar, J. Carter-Guy, Basseterre, Saint Kitts
- *July 2026 (virtual):* ***Saint Kitts and Nevis NDC PAF Loss and Damage Strategy Sensitization Sessions for Civil Society Organizations and Private Sector,*** S. Jattansingh, **A. Siebert**, A. Sircar, J. Carter-Guy
- *June 2026 (virtual):* Invited Contributor, *UNICEF-University College London (UCL) Policy Roundtable on Climate Change, Children and Non-Economic Loss and Damage*, London Climate Week, London, UK
- *May 2026 (virtual):* ***El Nino, La Nina and the Climate System****,* Climate Analytics Science Team, (virtual team meeting with most in Berlin, Germany)
- *March 2026:* Climate and Sustainability practitioner, Columbia Sustainability Careers Reception, New York, NY
- *March 2026:* Career Presentation: Climate Scientist, Liberty Elementary School, Valley Cottage, NY
- *Feb 2026:* ***Saint Kitts and Nevis Stakeholder Workshop Loss and Damage Strategy, NDC 3.0, LT-LEDS***, A. Siebert, C. Gomez, A. Sircar, J. Sindt and R. Brecha, Basseterre, Saint Kitts
- *Nov 2025 (virtual):* ***Climate Related Loss and Damage,*** invited guest lecture, University of Colorado, Denver, Climate Change Studies Program, Denver, CO
- *Oct 2025:* ***Saint Kitts and Nevis Partnership Action Fund****,* Stakeholder Workshop, C. Mendoza, R. Narvaez, S. Bhandari and A. Siebert, Basseterre, Saint Kitts
- *Oct 2025:* ***Climate Modelling, Loss and Damage****,* invited speaker, NASA-GISS, New York, NY
- *Jul 2025 (virtual):* ***Climate Change and Migration,*** Climate Analytics Diplomacy Team (virtual team meeting with participants from Germany, Trinidad, Nepal and New York offices)

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- *Apr 2025:* ***Climate Impacts & Loss and Damage in the Eastern Caribbean,*** Loss and Damage Session, (with S. Jattansingh), Organization of Eastern Caribbean States Nationally Determined Contributions Financing Initiative (OECS NDCFI) conference, Saint George's, Grenada
- *Mar 2025:* ***Saint Kitts and Nevis Partnership Action Fund, Loss and Damage Component***, Stakeholder Workshop, A. Siebert, V. Jenkinson, C. Mendoza and R. Narvaez, Basseterre, Saint Kitts
- *Dec 2024 (virtual):* ***NDC Partnership Action Fund, Loss and Damage Component***, Climate Action Unit Year in Review, A. Siebert, V. Jenkinson, C. Mendoza and R. Narvaez, Basseterre, Saint Kitts
- *Dec 2024:* ***The Scientific Case for Financing Climate-Related Loss and Damage***, Roundtable of the UNOHRLLS, with D. Lund and F. Fuller, United Nations Secretariat, New York, NY
- *Mar 2024:* ***Seasonal Forecasting and Innovative Financing for Food Security in a Changing Climate,*** invited panelist (with J. Jagermeyer, E. Nebie, and P. Collingsworth) Loyola University Climate Change Conference, Chicago, IL
- Nov 2023 (virtual): ***Climate Forecasting and Societal Impact***, Fellow-Led Session, ClimateBase
- *May 2023:* ***Addressing Evolving Climate Risks in New Jersey and in a Changing World***, seminar for **Rutgers University** Assistant Professorship position in Climate Services through the Meteorology and Atmospheric Science departments and the Rutgers Cooperative Extension (NJAES), Cook Campus, New Brunswick, NJ
- *Feb 2023:* ***Addressing Climate Risks in a Changing World***, seminar for **City College of New York (CCNY)** Assistant Professorship position through Earth and Atmospheric Science (EAS) Department, CCNY, New York, NY
- *Apr 2022:* ***Climate Services and Adaptation***, Climate Futures Initiative Symposium, Princeton University, Princeton, NJ
- *Nov 2021 (virtual):* ***Addressing Weather and Climate Risks in Africa and Other Contexts***; seminar for **Penn State University** Assistant Professorship position through Alliance for Education, Science, Engineering and Design with Africa (AESEDA) program, State College, PA
- *Nov 2021, Feb 2021 and Oct 2019 (virtual):* ***IRI Seasonal and Sub-Seasonal Climate Forecast Forum,*** Palisades, NY
- *Apr 2021 (virtual):* ***Climate Services and Energy Production in Guatemala: Forecasting Streamflow in the Upper Samalá River Watershed***, D. Pons and A. Siebert, IRI seminar
- *Mar 2021 (virtual):* ***Hydroclimatic Risks in a Changing World – Examples from Africa and California,*** Sun Valley Area Neighborhood Council Meeting (SVANC), Los Angeles, CA
- *Aug 2018:* ***IRI ENSO Forecast OND 2018,*** Greater Horn of Africa Climate Outlook Forum (GHACOF) general meeting, Kigali, Rwanda
- *Jul 2018:* ***Climate Analysis for Agricultural Application; Examples from Rwanda and Elsewhere in Africa,*** National Center for Atmospheric Research (NCAR), Boulder, CO

- *Mar 2018:* ***Climate Change Science, Impacts, Vulnerability with Regional Examples****,* Passaic Valley High School, Little Falls, NJ
- *Feb 2018:* ***ICPAC Flexible Forecast Agriculture and Food Security Maprooms***, GHACOF working dinner for the agricultural user community, Mombasa, Kenya
- *Feb 2018:* ***IRI ENSO Forecast MAM 2018,*** GHACOF general meeting, Mombasa, Kenya
- *May 2017:* ***Climate Analysis for Agricultural Application; Examples from Rwanda and Elsewhere***, IRI, Columbia University, Palisades, NY
- *Apr 2017:* ***Career Background in Climate and Society Research****,* presentation to Climate and Society MA students at Columbia University, New York, NY
- *Nov 2016:* ***CCAFS Rwanda Project,*** presentation to UK-Strengthening Climate Information Partnerships East Africa (SCIPEA) visitors, IRI, Palisades, NY
- *Nov 2016:* ***Climate Change and Risk Management in Africa: Examples from the Sahel and Rwanda****,* Hunter College Geography Seminar, New York, NY
- *Jun 2012:* Panelist on the "Potential of Life on Other Planets" with M. Brown and D. Spergel, Princeton University Reunions, Princeton, NJ
- *Sep 2011:* ***Regional Climate Projections with Stochastically Introduced Interannual to Multidecadal Variability: Methodology and Examples of Application in Risk Assessment****,* M. N. Ward & A. Siebert, NASA-GISS, New York, NY
- *Jul 2010:* ***Estimating 30-year Ahead Statistics of Extreme Low Seasonal Rainfall Totals for Risk Management Applications****,* African Center for Meteorological Application to Development (ACMAD), Niamey, Niger
- *Nov 2008:* ***Index Insurance****,* Climate and Society MA Program, Columbia University, New York, NY
- *Jul 2008:* ***Climate Change: Science, Impacts and Adaptation****,* Educational Opportunity Fund (EOF) program, Rutgers University, New Brunswick, NJ

OTHER EXPERIENCE

Sustainability

2011-2013; **Rutgers Graduate Student Sustainability Committee *member*:** created information sheets on topics related to sustainability, helped coordinate events on green living

2011-2013; **Anshe Emeth Memorial Temple Sustainability Committee *member*:** led one lecture on climate change, discussed and participated in other synagogue green initiatives

Organization/Service

Apr 2013-May 2014, Tuesdays; **Federal Grand Juror** in US District Court in Newark**,** NJ

2010-2013; **Geography Graduate Project (GGP)** ***vice president*** (2012-2013), ***co-organizer of professional development forums*** (2011-2012), ***social chair*** (2010-2011): represented student concerns to faculty and faculty concerns to students (as vice president)

2011-2013; **Rutgers Shalom/Salaam *graduate liaison/member*:** helped with logistics for events promoting Jewish-Muslim dialogue, volunteered to feed homeless in Newark, NJ

2003: **MIT Program in Atmospheres, Oceans and Climate (PAOC), *Principal Organizer*:** organized conference retreat at the Red Jacket Resort, S. Yarmouth, MA, (~90 attendees)

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PROFESSIONAL SOCIETIES

2025: European Geophysical Union (EGU)
2004-2012, 2018-2022; American Geophysical Union (AGU)
2006-2022; American Meteorological Society (AMS)
2010-2016; Association of American Geographers (AAG)

SKILLS

Technical

- Microsoft Office
- Mathematical Programming: Python, Matlab, R, Mathematica, geospatial analysis with Python
- IRI: CPT (Climate Predictability Tool), PyCPT (Python-based CPT), IRI Data Library, R-based CDT (Climate Data Tool)

Language(s)

- Native/fluent: English, Proficient/conversational: French, Beginner: Yiddish, Hebrew, Spanish, Kinyarwanda, Swahili

INTERESTS/ACTIVITIES

husband and father of two young children
music – 30+ years; classical, jazz, klezmer; trumpet, piano, singing, composition
martial arts ~15 years, various sports, Judaism, charity

REFERENCES

Climate Analytics
Dr. Morgan Seag morgan.seag@climateanalytics.org – North America Director
Dr. Rosanne Martyr rosanne.martyr@climateanalytics.org – Adaptation Lead, Senior Scientist
IRI/Columbia
Dr. Andrew Robertson, awr@iri.columbia.edu – Adviser, Climate Group Lead, Senior Research Scientist
PhD Rutgers
Dr. David Robinson, david.robinson@rutgers.edu – PhD adviser, Distinguished Geography Professor, NJ State Climatologist

WEBSITES

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Personal: https://asclimateservices.org