

CLIMATE SYSTEM ANALYSIS GROUP



UNIVERSITY OF CAPE TOWN, SOUTH AFRICA



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CSAG

CLIMATE SYSTEM
ANALYSIS GROUP

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ABOUT CSAG



The Climate System Analysis Group (CSAG), based at the University of Cape Town (UCT), South Africa, is a multi-disciplinary research centre that, since its inception in 1992, has been evolving a nuanced strategy for research in Africa.

Blending atmospheric science, climate modelling, and applied climate analysis with multidisciplinary elements of vulnerability, impacts and adaptation science, CSAG offers a unique integration of research relevant to developing nation needs. These resources are coupled with proactive engagement and capacity building activities across the continent in a strategic effort to bridge the science-society interface. From these foundations CSAG seeks to apply the core research to meet the knowledge needs of responding to climate variability and change.

CSAG's core disciplinary depth is in physical climate science, but we believe that, in order for climate science to be societally relevant, practitioners need to be involved from the start in order to inform the development of information for climate change analysis. Thus, CSAG is involved in numerous projects in Africa, specifically targeted at engaging practitioners in aiding development of climate information but also in disseminating climate information in a decision-relevant manner. This includes expertise in climate vulnerability and adaptation assessments.

Central to our portfolio of activities is the intent to be **relevant** to the knowledge **needs** of developing nations

MEET THE TEAM

CSAG is comprised of a mix of researchers, post-docs, MSc and PhD students, with administrative and IT support staff, backed by the institutional support of the University of Cape Town. The members of CSAG have excellent national and international collaborative experience with formal links to a number of foreign institutions, and with senior personnel participating in key international activities, including leading roles within the IPCC.





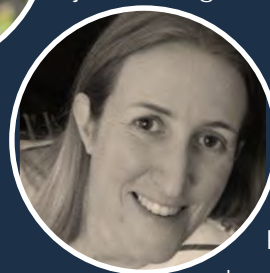
Prof. Bruce Hewitson
Director
hewitson@csag.uct.ac.za



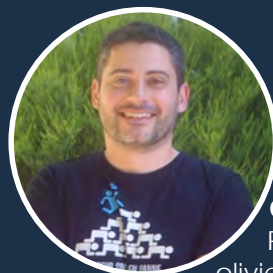
Dr. Chris Jack
Deputy Director
cjack@csag.uct.ac.za



Dr. Chris Lennard
Research Staff
lennard@csag.uct.ac.za



Anna Steynor
Research Staff
asteynor@csag.uct.ac.za



Olivier Crespo
Research Staff
olivier@csag.uct.ac.za



Dr. Peter Johnston
Research Staff
johnston@csag.uct.ac.za



Dr. Piotr Wolski
Research Staff
wolski@csag.uct.ac.za



Dr. Mark Tadross
Research Staff
mtadross@csag.uct.ac.za



Anna Taylor Borchers
Research Staff
annactaylor@gmail.com



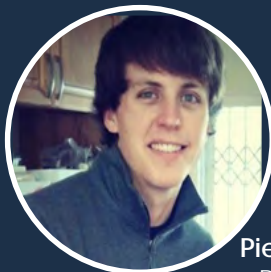
Dr Lorena Pasquini
Research Staff
lorena.pasquini@gmail.com



Izidine Pinto
Research Staff
izidinep@csag.uct.ac.za



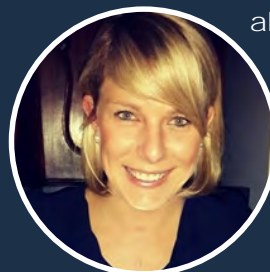
Alice McClure
Research Staff
alice@csag.uct.ac.za



Pierre-Louis Kloppers
Research Support
pkloppers@csag.uct.ac.za



Lisa Coop
Research Support
lisa@csag.uct.ac.za



Kate Kloppers
Research Support
kate@csag.uct.ac.za

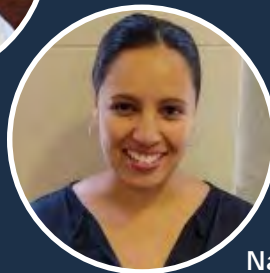
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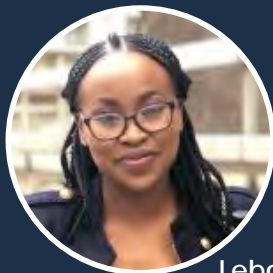
Rodger Duffett
Research Support
izidinep@csag.uct.ac.za



Phillip Mukwenha
Research Support
pmukwena@csag.uct.ac.za



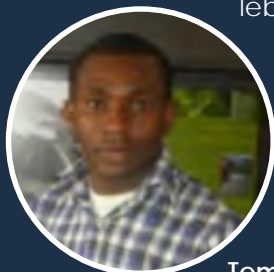
Natalie Johnson
Administration
natalie@csag.uct.ac.za



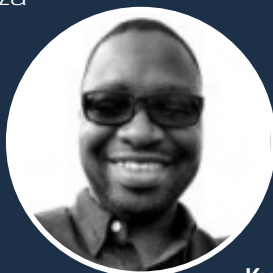
Lebogang Matlakala
Research Support
lebo@csag.uct.ac.za



Shakirudeen Lawal
Post-Doctoral Researcher
lasd_dr@yahoo.com



Temitope Egbebiyi
Post-Doctoral Researcher
temitope@csag.uct.ac.za



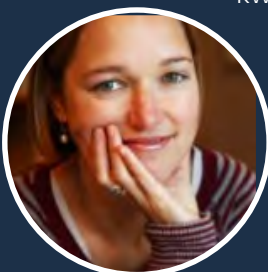
Kwesi Quagraine
Post-Doctoral Researcher
kwesi@csag.uct.ac.za



Melanie Rustin-Nefdt
Administration
melanie@csag.uct.ac.za



Dr Dianne Scott
Affiliate
diannescott.dbn@gmail.com



Assoc Prof Gina Ziervogel
Affiliate
gina@csag.uct.ac.za



Babatunde Abiodun
Affiliate
Babatunde.Abiodun@uct.ac.za

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WHAT WE DO

As a leading climate research group in Africa, CSAG is uniquely positioned to target the critical knowledge needs of the region. CSAG focuses on the generation of robust, relevant, regional climate change information, while advancing our understanding of the coupled climate system. In collaboration with practitioners, CSAG develops information and builds capacity to better address decision needs and support the research activities of other disciplines. CSAG does this in two ways, firstly through numerous research projects, and secondly through our climate consultancy services.



CSAG has an international research profile in climate change with a strong track record in the management and processing of *climate data* as well as the integration of climate information into decision making processes. While CSAG holds a prominent place in the field of climate *modelling* and analysis, it is also positioned at the forefront of *transdisciplinary climate research* in Africa.

CSAG has excellent national and international collaborative experience with formal links to a number of leading international research institutions and programs. CSAG has representation on key international activities (e.g. 3 IPCC authors in WG1 and WG2, co-chair of the IPCC TGICA, WCRP Task Force on Regional Climate Downscaling).

CSAG matches this modelling expertise with complementary expertise in decision support science and transdisciplinary engagement. CSAG takes a deeply interactive approach to its research with the philosophy of being decision-relevant for society. In this respect, CSAG has leading expertise in transdisciplinary engagement processes and user-focused product development.

RESEARCH



RESEARCH PROJECTS

CSAG is involved in numerous research projects and since its inception in 1992 has built **strong** relationships which enable great **collaboration** and **partnerships** with other institutions. Our research projects are available for viewing on our website.



FOR FURTHER INFORMATION
ON RESEARCH PROJECTS
VISIT OUR **WEBSITE**

CSAG welcomes collaborative and inter-disciplinary research, should you wish to find out more about any of the research projects we are involved in, contact us for more information

CSAG has a long and **extensive** track record in partnering with other organisations to deliver climate related services. In particular CSAG is a key partner active in Africa and Southern Africa in the Climate Change **adaptation** decision space.

CSAG offers the following in terms of consulting services:

- Global and regional climate modelling supported by an in-house high-performance computing facility
- Practitioner engagement and co-production
- Statistical and dynamic downscaling of climate change projections
- Scientific capacity development
- Agricultural and Hydrological modelling
- Integration of climate information in Vulnerability, Impacts and Adaptation decision-making.
- Perceptions, attitudes and behavioural change studies



CSAG is rapidly expanding its engagement with society. This recognizes that science can only be useful if designed, communicated and understood in ways that are applicable. To this end, CSAG has created a dedicated engagement team who have a unique blend of experience in both climate science and communication with the policy, adaptation, and decision maker communities. Working with practitioners goes deeper than mere dissemination of a data product.

CSAG believe that active communication is two directional within a knowledge network of climate and non-climatic information - that climate services are more than a one-way delivery of data. Sustained engagement with practitioners in the co-production of knowledge leads to climate related products that are user-focused and decision-relevant, while engendering an ongoing relationship between science and society.

A central theme to complement climate services is one of capacity building through training. CSAG is active in hosting training workshops, mentoring junior scientists, and supporting climate change projects across Africa. These capacity building activities include mid-career professional training on climate change, such as in the CSAG annual Winter School focused on using climate information for adaptation and policy development, as well as the hosting of visiting scientists and students, and interns.



Inquire about
CSAGs climate services

STUDY





STUDY WITH US

The Climate System Analysis Group hosts honours, masters, and PhD students who are enrolled in the Atmospheric Science stream within the Environmental and Geographical Science Department (EGS) at the University of Cape Town. In addition to facilitating the research projects of these students, CSAG has post-doctoral research positions. Postdoctoral research fellows at CSAG have the opportunity to engage with researchers at the top of their field, on research projects that are on the frontiers of science.

To [join the CSAG team](#) as a honours, masters, PhD, or Postdoctoral fellow, candidates need to apply through the **faculty of Science within the University of Cape Town.**



CONTACT US



www.csag.uct.ac.za



climate@csag.uct.ac.za



+27 21 650 2784



CSAG, Environmental and Geographical
Science dept., University of Cape Town, Private
Bag X3, Rondebosch
7701, South Africa



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