

Dr Martin Jucker

Weather & Climate Scientist

Sydney, AUS | +61 (0)481 129 599 | martin.jucker@unsw.edu.au

martinjucker.com github.com/mjucker

Work History

Lecturer in Climate Dynamics 2018 - now
The University of New South Wales, Sydney, Australia
Climate dynamics with a hierarchy of climate models.

Maritime Continent Research Fellow 2016 - 2018
The University of Melbourne, Melbourne, Australia
Cloud-resolving simulations of tropical convection.

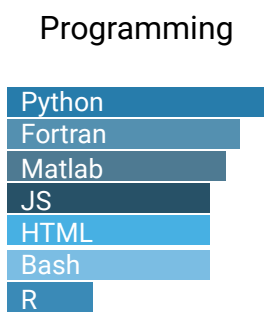
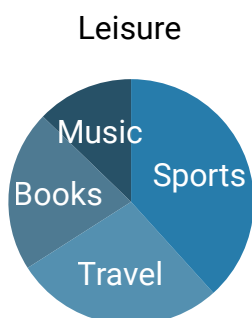
Postdoctoral Research Scholar 2014 - 2016
New York University, New York, USA
Development of an idealised moist GCM (MiMA).

Associate Research Fellow 2011 - 2014
Princeton University / GFDL, Princeton, USA
Development of improved stratosphere in idealized dry GCMs.

Education

PhD in Computational Plasma Physics 2006 - 2010
Ecole Polytechnique Fédérale de Lausanne, Switzerland
Integrated modelling of wave-particle-plasma interactions in fusion reactors. Developed 3D SCENIC code package.

MSc in Physics 2001 - 2006
Ecole Polytechnique Fédérale de Lausanne, Switzerland
Study Abroad Uppsala University, Sweden 2003 - 2004 & 2005



Output

Visualisation & Outreach



Art of Science, Princeton
Winner '13, Finalist '14

Weather Alive
3D interactive weather website

Features & News
WCRP Future Leader
Open Source Climate Models
The Warming
Visualising weather
Thinking out of the flat box

YouTube
Animated science

Book Illustrations
Faszinierende Physik
Atmospheric and Oceanic Fluid Dynamics, 2nd Edition

Software
SCENIC: HPC, Fortran
JFV-strat: HPC, Fortran
MiMA: HPC, Fortran
pv_atmos: Viz, Python

Research
12 First author papers
24 refereed papers
h-index 11

Funding
SNSF Early Postdoc (US\$85k)
SNSF Adv. Pdoc (US\$62k)