CURRICULUM VITAE

MICHAEL MAIER-GERBER

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Born	20th of May 1991, Malsch, Germany
Nationality	German

WORK EXPERIENCE

4/2018 - 5/2018 — **Research visits at leading meteorological institutes in the USA**
University of Colorado, University of Florida, State University of Albany and others
Funded by the Early-Career-Scientist Grant of the Waves to Weather research project

Since 7/2017 — **Research associate at the Karlsruhe Institute of Technology, PhD student**
- active contribution in writing full proposal (including PhD project) of the DFG "Waves to Weather" (W2W; SFB 165) C3 project
- developing statistical-dynamical forecast models for subseasonal tropical cyclone activity based on deep learning approaches
- teaching and supervising students

5/2017 - 7/2017 — **Research assistant, WG Atmospheric Dynamics, Karlsruhe, Germany**
- Publication on a multiscale predictability case study for tropical transition of a North Atlantic Hurricane

11/2016 - 12/2016 — **Student assistant, WG Land Surfaces and Boundary Layer, Karlsruhe Institute of Technology, Germany**

2/2015 - 7/2016 — **Student assistant, WG Land Surfaces and Boundary Layer, Karlsruhe Institute of Technology, Germany**
- Software development for the analysis of dropsonde measurements (KITsonde)
- Content management for the website of the integrated atmospheric observation system "KITcube"

5/2014 - 8/2014 — **Research internship at NOAA's Hurricane Research Division, Miami, USA**
- Research project on Hurricane Ingrid using a new data assimilation technique
- Participation in the airborne Hurricane field campaign in 2014

11/2008 — **Internship at the German weather service (DWD), Offenbach, Germany**

11/2005 — **Internship at the Landesanstalt für Umweltschutz Baden-Württemberg (LfU; nowadays LUBW), Karlsruhe, Germany**

EDUCATION

9/2019 — **MICMoR Summer School 2019, KIT/IMK-IFU, Garmisch-Partenkirchen, Germany**
"Working with Environmental Data – From Explorative Data Analysis to Deep Learning"

3/2019 – 4/2019 — **fast.ai course v3**
"Practical Deep Learning for Coders"

9/2018 — **Machine Learning Workshop on the Schneefernerhaus, Zugspitze, Germany**

3/2018 + 2/2019 — **Advanced personal training with Jochen Biganzoli (theater director)**
„Die Kunst sich selbst zu präsentieren"

Since 11/2015	**Early Career Scientist member in the Transregional Collaborative Research Center "Waves to Weather" (W2W; SFB 165)**
2014 - 2017	**Karlsruhe Institute of Technology (KIT), Germany** MSc Meteorology, 1.0 (very good) • Thesis: "Predictability of Tropical Transition in the North Atlantic Ocean"
2010 - 2014	**Karlsruhe Institute of Technology (KIT), Germany** BSc Meteorology, 1.7 (good) • Thesis: "Transient vortex Rossby waves on an idealized tropical cyclone in vertical wind shear"
2007 - 2010	**Aloys Henhoefer higher secondary vocational school, Pfinztal, Germany** Academic high school diploma, 1.2 (very good), majors: information technology and mathematics
2001 - 2007	**Aloys Henhoefer secondary school, Pfinztal, Germany** High school diploma, 1.1 (very good)

PEER-REVIEWED PUBLICATIONS

Di Muzio, E., M. Riemer, A. H. Fink, **M. Maier-Gerber**, 2019: Assessing the predictability of Medicanes in ECMWF ensemble forecasts using an object-based approach. *Quart. J. Roy. Meteor. Soc.*, **145**, 1202–1217, https://doi.org/10.1002/qj.3489.

Maier-Gerber, M., M. Riemer, A. H. Fink, P. Knippertz, E. Di Muzio, R. McTaggart-Cowan, 2019: Tropical Transition of Hurricane Chris (2012) over the North Atlantic Ocean: A Multi-Scale Investigation of Predictability. *Mon. Wea. Rev.*, **147**, 951–970, https://doi.org/10.1175/MWR-D-18-0188.1.

Maier-Gerber, M., F. Pantillon, E. Di Muzio, M. Riemer, A. H. Fink, P. Knippertz, 2017: Birth of the Biscane. *Weather*, **72**, 236–241, https://doi.org/10.1002/wea.2995.

VOLUNTARY WORK

3/2012 - 4/2014	Private coaching for higher secondary school pupils at the "Lerntreff Karlsbad"
8/2009	Outreach youth work in different villages in Moldova with "Operation Mobilisation"
Since 2005	Volunteering at the local church (children and youth activities)

TECHNICAL SKILLS

Programming	Python, FORTRAN, NCL, C++, PHP, JavaScript, SQL, Bash and more
Statistics	MATLAB, R
Miscellaneous	UNIX, LaTeX, HTML and more

REFERENCES

Prof. Dr. Peter Knippertz
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Institute of Meteorology and Climate Research (IMK)
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M. Maier-Gerber

Karlsbad, October 20nd, 2019