Darius A. **Görgen**

SOFTWARE DEVELOPER · B.SC. GEOGRAPHY · B.A. POLITICAL SCIENCES

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Education

M.Sc. in Physical Geography

UNIVERSITY OF MARBURG

Marburg, Germany
Oct. 2018 - today

- Ongoing thesis on environmental drivers of conflict and migration in East Africa.
- Major in Environmental Informatics, Climatology and Hydrogeography.

B.Sc. in Geography

UNIVERSITY OF MARBURG

Marburg, Germany
Oct. 2014 - Feb. 2018

- Thesis: "Comparison of machine learning algorithms to monitor land use activity in the Ili-Balkhash-Basin".
- Development of R routines to assess agricultural activity based on MODIS data sets and different machine learning algorithms.
- Evaluation of the thesis: 1.0

B.A. in Political Sciences of the MENA Region

UNIVERSITY OF MARBURG

Marburg, Germany
Oct. 2014 - Sep. 2018

- Thesis: "Framing public participation in water management in Jordan".
- Based on qualitative interviews with state officials in the water and agricultural sector.
- Evaluation of the thesis: 0.7

Abitur

GUSTAV-STRESEMANN GYMNASIUM

Bad Wildungen, Germany
Oct. 2005 - Jun. 2013

- Grade: 1.4

Skills

Back-end	PostgreSQL, SSH, Docker
Front-end	Shiny, Markdown
Programming	R, Python, Bash
Languages	German, English, French, Spanish, Turkish, Arab

Working Experience

MapTailor Geospatial Consulting GbR, Dr. Fabian Löw

SOFTWARE DEVELOPER

Bonn, Germany
Jan. 2020 - today

- Consultancy for project evaluation in the international cooperation sector.
- Development of several R packages to support planning and evaluation of deforestation/afforestation projects.
- Agil software development environment in a multi-stakeholder process.

Peace Research Institute Frankfurt (PRIF), Member of the Leibniz Association, Dr. Irene Weipert-Fenner

STUDENT ASSISTANT

Frankfurt, Germany
Oct. 2019 - Jan. 2020

- Support of ongoing research on economic protests in Tunisia and Egypt.
- Worked on a project on Natural Language Processing of news articles for topic indentification.

Department of Climatology and Environmental Modelling, Prof. Dr. Jörg Bendix

STUDENT ASSISTANT

Marburg, Germany
May. 2015 - Dec. 2019

- Support of an doctoral researcher working on the global identification of a new type of tropical lowland cloud forest.
- Development of R and Python routines to process large amounts of satellite data.

Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

EXTERNAL CONSULTANT

Marburg, Germany
Nov. 2018 - Dec. 2018

- Evaluation report on GIZ activites at the intersection of the water and agricultural sector.
- Qualitative interviews with project staff worldwide.
- Critical reflection of lessons-learned and recommendations for the strategic orientation of the water sector.

Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Dr. Katja Schmitt *Eschborn, Germany*

Intern for Sustainable Water Policy *Mar. 2018 - Jun. 2018*

- Support in drafting the BMZ strategy paper on water, flight and migration.
- Quantitative analysis of numbers on migration and water risk on the African continent.
- Evaluation of project proposal in the agricultural sector from a water sector's perspective.

Department of Soil and Hydrogeography, Prof. Dr. Christian Opp *Marburg, Germany*

Student Assistant *Oct. 2016 - Dec. 2016*

- Support of ongoing research projects.
- Conduction of tutorials for fellow students.
- Support in scientific writing for fellow students.

International Experience

Workshop by the German Council on Foreign Relations (DGAP) *Tunis, Tunisia and Berlin, Germany*

Think Tank on Decentralization, Institution-Building and the Development of Marginalized Regions in Tunisia *Sep. 2018 - Oct. 2018*

- Two week workshop with Tunisian and European activists and researchers.
- Writing of a policy paper entitled "Towards Sustainable Water Resource Management and Food Sovereignity in Tunisia".

Summer School in Teheran, Prof. Dr. Mohammad R. Farzanegan *Teheran, Iran*

Social Policy in Oil-Based Economies *Oct. 2017 - Nov. 2017*

- DAAD sponsored program on Policital Economy of Natural Resource Management (NAREM).

Arabic Language and Culture *Amman, Jordan*

German-Jordanian University *Oct. 2017 - Jan. 2018*

- Winning candidate of a DAAD scholarship for a four-month language course.

Research Excursion in Bolivia, Dr. Kerstin Bach *La Paz, Bolivia*

Water in the environment and as a basic commoditiy for human activity *Aug. 2017 - Sep. 2017*

- Qualitative interviews with various stakeholders on electricity and water supply.

Field Work for the thesis in the B.Sc. Geography *Almaty, Kazakhstan*

Al-Farabi Kazakh National University, Almaty *Mar. 2017 - Apr. 2017*

- Independent organization of field trips to collect ground truth points in agricultural zones around Almaty, Kazakhstan.

Research Excursion in Tunisia, Julius Dihestelhoff & Katrin Sold *Tunis, Tunisia*

Logic of action in the Tunisian transformation process *Sep. 2016*

- Qualitative interviews with social actors of the Tunisian transformation process.
- Focus on transitional justice since the revolution in 2011.

Research Excursion in Marocco, Prof. Dr. Markus Hassler *Marrakech, Marocco*

Analysis of local value chains *Apr. 2016 - May. 2016*

- Qualtitative interviews on the value chain of leather products.

Showcase

Using machine learning for the automatic classification of spectral samples to detect microplastic particles *Marburg, Germany*

Seminar Work at the Department of Soil and Hydrogeography, Prof. Dr. Peter Chifflard *Sep. 2019*

- Development of R routines to preprocess and analyse spectral data from environmental samples.
- Reproducible documentation of the workflow and results on a website.
- Click here or visit `https://goergen95.github.io/polymeRID`

Low-cost environmental sensor boxes for the LOEWE's research project Natur4.0 *Marburg, Germany*

Seminar Work at the Department of Geographic Information Systems, Dr. Christoph Reudenbach *Jul. 2019*

- Assembly and documentation of low-cost sensor boxes based on a Raspberry Pi.
- Click here or visit `https://goergen95.github.io/sensorbox-docu`

Mapping forest stand structures based on aerial images and LiDAR data *Marburg, Germany*

Seminar Work at the Department of Environmental Informatics, Prof. Dr. Thomas Nauss *Feb. 2019*

- Development of R routines to preprocess optical and LiDAR data for forest stand analysis.
- Development of a website to communicate the workflow and results.
- Click here or visit `https://goergen95.github.io/mof_caldern`