

Michael Matiu

CV

Birthday 09. April 1987 in Baia Mare (Romania)
Civil status committed relationship, 2 sons (b. 2013 & 2018), 1 daughter (b. 2015)
Nationality German, Romanian

Positions

- since 2022 **Postdoctoral Researcher**, *Department of Civil, Environmental and Mechanical Engineering, University of Trento, Trento, Italy.*
- 2021 – 2022 **Mathematics teacher**, *Franziskanergymnasium, Bolzano, Italy.*
- 2021 **Researcher**, *Swiss Federal Research Institute WSL, Birmensdorf, Switzerland.* Short-term project: Assisting in the development of an R-package for analysing tree ring data.
- 2018 – 2021 **Postdoctoral Researcher (Marie Skłodowska-Curie Fellow)**, *Institute for Earth Observation, Eurac Research, Bolzano, Italy.* CliRSnow (Statistically combine climate models with remote sensing to provide high-resolution snow projections for the near and distant future). More at <https://clirsnow.netlify.app/>.
- 2017 – 2018 **Senior Biostatistician**, *Staburo statistical consulting, Munich, Germany.* Statistical consulting and statistical programming.
- 2017 **Researcher**, *Institute for Earth Observation, Eurac Research, Bolzano, Italy.* Short term project: Data analysis for the next Klimareport Südtirol.
- 2016 **Visiting Scientist**, *Institute for Earth Observation, Eurac Research, Bolzano, Italy.* Three month research stay in course of the Ph.D.
- 2013 – 2016 **Research Assistant**, *Professorship of Ecoclimatology, Technical University of Munich, Germany.* Statistical data analysis and consulting.

Education

- 2013 – 2017 **Ph.D.**, *Professorship of Ecoclimatology, Technical University of Munich, Germany,* Thesis title: Climate extremes and variability, and their ecological impacts; supervised by Prof. Dr. Annette Menzel and Prof. Ph.D. Donna Ankerst.
- 2010 – 2013 **M.Sc. Mathematics in Bioscience**, *Technical University of Munich, Germany,* Thesis title: Incorporating Single Nucleotide Polymorphisms into Prostate Cancer Risk Prediction Models; supervised by Prof. Ph.D. Donna Ankerst, final grade 1.9.
- 2006 – 2009 **B.Sc. Wirtschaftsmathematik**, *University of Hamburg, Germany,* Thesis title: Flexible Fertigungssysteme; supervised by Prof. Dr. Wolfgang Brüggemann and Prof. Dr. Hartmut Stadler, final grade 1.86.

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Academic career

Social accounts

<https://scholar.google.com/citations?user=de2JAHYAAAAJ&hl=de>

<https://orcid.org/0000-0001-5289-0592>

https://www.researchgate.net/profile/Michael_Matiu

<https://github.com/mitmat>

<https://publons.com/researcher/1706934/michael-matiu/>

Selected publications

- 2020 Matiu M, Crespi A, Bertoldi G, Carmagnola CM, Marty C, Morin S, Schöner W, Cat Berro D, Chiogna G, De Gregorio L, Kotlarski S, Majone B, Resch G, Terzago S, Valt M, Beozzo W, Cianfarra P, Gouttevin I, Marcolini G, Notarnicola C, Petitta M, Scherrer SC, Strasser U, Winkler M, Zebisch M, Cicogna A, Cremonini R, Debernardi A, Faletto M, Gaddo M, Giovannini L, Mercalli L, Soubeyroux J-M, Sušnik A, Trenti A, Urbani S, Weilguni V. 2020. Observed snow depth trends in the European Alps 1971 to 2019. *The Cryosphere*, 15, 1343–1382. DOI: <https://doi.org/10.5194/tc-15-1343-2021>.
- 2020 Menzel A, Yuan Y, Matiu M, Sparks T, Scheifinger H, Gehrig R, Estrella N. 2020. Climate change fingerprints in recent European plant phenology. *Global Change Biology*, 26(4): 2599–2612. DOI: <https://doi.org/https://doi.org/10.1111/gcb.15000>.
- 2017 Matiu M, Ankerst, DP, Menzel A. Interactions between temperature and drought in global and regional crop yield variability during 1961-2014. *PLOS One* 12(5): e0178339. DOI: 10.1371/journal.pone.0178339.
- 2017 Matiu M, Bothmann L, Steinbrecher R, Menzel A. Monitoring succession after a non-cleared windthrow in a Norway spruce mountain forest using webcam, MODIS NDVI and turbulent CO₂ exchange. *Agricultural and Forest Meteorology* 244–245: 72–81. DOI: 10.1016/j.agrformet.2017.05.020.
- 2016 Matiu M, Ankerst DP, Menzel A. Asymmetric trends in seasonal temperature variability in instrumental records from ten stations in Switzerland, Germany and the UK from 1864 to 2012. *International Journal of Climatology* 36: 13–27. DOI: 10.1002/joc.4326.

Teaching

- 2014 – 2015 Lecturer: Statistical methods in course of the lecture series: Causes and impacts of climate change. Technical University of Munich, Germany.
- 2011 – 2013 Tutor: Introductory mathematics (analysis 1 and 2, higher mathematics, preparatory courses). Technical University of Munich, Germany.
- 2008 – 2009 Tutor: Introductory mathematics (stochastics for computer scientists, numerical analysis, mathematics for economists). University of Hamburg, Germany.

Supervising

- 2021 Master's thesis (Co-Betreuung): Bozzoli M. *Trend analysis of snowfall in the Trentino-South Tyrol region*. University Innsbruck & University Trento, Austria & Italy.

- 2018 – 2020 PhD thesis (co-supervision): Lingjun H. Deep Renovation of Historic Buildings towards lowest possible energy demand and CO2 emission. Politecnico di Milano, Italy.
- 2016 Master's thesis (co-supervision): Gong W. Using pixel classification for the phenological analysis of close range remote sensing cameras. Technical University of Munich, Germany.
- 2016 Master's thesis (co-supervision): Michaelis R. Effects of meteorological parameters and different ventilation schemes on indoor concentrations of birch pollen. Technical University of Munich, Germany.
- 2015 Master's thesis (co-supervision): Wang Z. Changes in the Distribution of Climate Variables in Europe by Quantile Regression. Technical University of Munich, Germany.
- 2014 Master's thesis (co-supervision): Loock B. Sensitivity of agricultural prices (FAOSTAT) to climate variability and yields. Technical University of Munich, Germany.

Training

- 2017 **IGSSE Qualification Program**, *Accompanying the individual doctoral research project "Climate extremes and variability, and their ecological impacts" in the interdisciplinary IGSSE project team "Drought modeling and monitoring by novel statistical and analytical methods"*, International Graduate School of Science and Engineering of the Technical University of Munich, Germany.
- 2015 **Writing scientific proposals**, *Instructor: Prof. Dr. Ulrike Müller*, Graduate School of the Technical University of Munich, Germany.
- 2015 **Advanced strategies for ecological data analysis**, *Instructor: Dr. Christian Zang*, Graduate School of the Technical University of Munich, Germany.
- 2014 **High Impact Paper Writing for Doctoral candidates and Postdocs**, *Instructor: Prof. Dr. Ulrike Müller*, Graduate School of the Technical University of Munich, Germany.
- 2014 **Rhetorik extrem - Frei reden im Freien**, *Instructor: Manuela Richter-Meyer*, Graduate School of the Technical University of Munich, Germany.

Languages

Fluent German, English,
 Conversational Romanian, Italian
 Basics French

Programming skills

Expert R, \LaTeX
 Basics Python, Java, XML, SAS

Other

- 2013 – 2014 **Ph.D student speaker**, *Focus Area Water - IGSSE*, Technical University of Munich, Germany.
- 2011 – 2012 **Student representative**, *Biedersteiner Wohnheim*, Munich, Germany.

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- 2010 – 2012 **Theater projects**, *Qualifikationsspiel, Adam und Esra, Der gewissenlose Mörder Hasse Karlsson, Herz aus Gift*, Munich, Germany.
- 2009 – 2010 **Work & Travel**, Australia.
- 2005 – 2006 **Community Service**, *Internationaler Bund für Sozialarbeit*, Rastatt, Germany.