

# Mona Bartling

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I am a doctoral student and researcher in geoinformatics with a strong focus on inclusive geospatial data visualization, map use context modeling, and map design adaptations. I have 5+ years work experiences in the sector of digital agriculture with work appointments in various international research institutes. I have a passion for cartographic design, and I am aiming to look at the margins of map design solutions.

## EDUCATION

- Since 2017     Doctoral program in Applied Geoinformatics  
Associated (since 2017) and FWF-funded (since 2020) student at the Doctoral College GIScience  
Department of Geoinformatics – Z\_GIS, University of Salzburg, Austria  
Thesis: The impact of user context on map design usability  
Advisor: Prof. Thomas Blaschke, Assoc.-Prof. Bernd Resch, Assoc.-Prof. Anthony Robinson
- 2015           M.Sc. Applied Geoinformatics (graduated with 1.1)  
University of Salzburg, Austria
- 2012           B.A. Educational Science (focus Geography; graduated with 1.7)  
University of Bremen, Germany

## RESEARCH POSITIONS

- Since 2020     Researcher at the Doctoral College GIScience, Department of Geoinformatics – Z\_GIS, University of Salzburg, Austria  
Research focus on analyzing user-centered design approaches for context-based map design usability.
- 2017-2019     Researcher at the Department of Geoinformatics – Z\_GIS, University of Salzburg, Austria – BMZ funded project "Climate smart coffee and cocoa: from theory to practice (CSCC)" with research appointments at the International Center for Tropical Agriculture (CIAT), Cali, Colombia and the International Institute of Tropical Agriculture (IITA), Kampala, Uganda  
Research focus on designing mapping tools for citizen participation and farmer collaboration.
- 2015-2017     Visiting researcher at the International Center for Tropical Agriculture (CIAT), Cali, Colombia  
Research focus on the design of offline maps and the usability of collaborative mobile map applications for smallholder farmers.

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<sup>1</sup> plus.ac.at/zgis/fachbereich/team/bartling

<sup>2</sup> scholar.google.com/citations?user=3GoPCC0AAAAJ

- 2014-2015      Research assistant at RSA, Studio iSPACE, Salzburg, Austria  
Research focus on the evaluation of a demand potential for the public transportation system of Salzburg.
- 2013            Research assistant at the Centre for Demographic and Health Research (CIDS), UNAN-León, Nicaragua  
Research focus on geoprocessing and spatial analysis of demographic data.
- 2011            Research assistant at the Department of Geography, University of Bremen, Germany  
Research focus on spatial analyses for the development of a Business Improvement District in Bremen.

#### **SCHOLARSHIPS AND AFFILIATIONS**

- Since 2020      NACIS membership
- Since 2017      Associate student at the Doctoral College GIScience, Department of Geoinformatics – Z\_GIS, University of Salzburg, Austria
- 2015-2020      Thesis coordinator of the academic committee at UNIGIS, Latin America
- 2013-2014      DAAD scholarship (German Academic Exchange Service) for a 12-months study appointment at UNAN-León, Nicaragua
- 2013            Associate of the Salzburg-León city cooperation
- 2011-2012      Erasmus scholarship for a 6-months study appointment at the University of Gothenburg, Sweden

#### **RESEARCH**

##### PUBLISHED ARTICLES

- Bartling, M., Havas, C. R., Wegenkittl, S., Reichenbacher, T., & Resch, B. (2021). Modeling Patterns in Map Use Contexts and Mobile Map Design Usability. *ISPRS International Journal of Geo-Information*, 10(8), 527. <https://doi.org/10.3390/ijgi10080527>
- Bartling, M., Robinson, A. C., Resch, B., Eitzinger, A., & Atzmanstorfer, K. (2021). The role of user context in the design of mobile map applications. *Cartography and Geographic Information Science*, 1-17. <https://doi.org/10.1080/15230406.2021.1933595>
- Bartling, M., Resch, B., Trösterer, S., & Eitzinger, A. (2021). Evaluating PPGIS Usability in a Multi-National Field Study Combining Qualitative Surveys and Eye-Tracking. *The Cartographic Journal*, 1-16. <https://doi.org/10.1080/00087041.2020.1842143>
- Eitzinger, A., Bartling, M., Feil, C., Bonilla-Findji, O., Andrieu, N., & Jarvis, A. (2020). GeoFarmer App: A tool to complement extension services and foster active farmers participation and knowledge exchange. Report available: <https://cgspace.cgiar.org/handle/10568/107365>
- Eitzinger, A., Cock, J., Atzmanstorfer, K., Binder, C. R., Läderach, P., Bonilla-Findji, O., Bartling, M., ... & Jarvis, A. (2019). GeoFarmer: A monitoring and feedback system for agricultural development projects. *Computers and electronics in agriculture*, 158, 109-121. <https://doi.org/10.1016/j.compag.2019.01.049>
- Bartling, M., Resch, B., Eitzinger, A., & Zurita-Arthos, L. (2019). A multi-national human-computer interaction evaluation of the public participatory GIS GeoCitizen. *GI\_Forum 2019*, 7, 19-39. DOI: 10.1553/giscience2019\_01\_s18

Bartling, M., Sotelo, S., Eitzinger, A., & Atzmanstorfer, K. (2016). Press the Button: Online/Offline Mobile Applications in an Agricultural Context. *GI\_Forum 2016*, 4, 106-116. DOI: 10.1553/giscience2016\_01\_s106

Sudmanns, M., Cadus, S., & Bartling, M. (2015). Geodata-based Alerting Service (GAS): A Conceptual Framework to Create Notifications Based on Spatial and Temporal Data. *GI\_Forum*, 2015, 6-15. DOI:10.1553/giscience2015s6

#### SELECTED CONFERENCE, WEBINAR, AND WORKSHOP PRESENTATIONS

- 2021 “When things go wrong –conducting research during a pandemic” ICA workshop on Adaptable Research Methods For Empirical Research with Map Users ([cogvis.icaci.org/21\\_adaptable.html](http://cogvis.icaci.org/21_adaptable.html))
- 2020 “Digital tools for farmers advisory and climate action” online webinar series of the CGIAR Platform for Big Data in Agriculture ([bigdata.cgiar.org/blog-post/webinar-digital-tools-for-farmers-advisory-and-climate-action](http://bigdata.cgiar.org/blog-post/webinar-digital-tools-for-farmers-advisory-and-climate-action))
- 2019 “A multi-national human–computer interaction evaluation of the public participatory GIS GeoCitizen” GI\_Forum conference presentation, Salzburg, Austria
- 2018 “Smart monitoring of farm labor productivity” pitch invitation as one of the inspire challenge finalists at the Big Data in Agriculture Convention 2018, Nairobi, Kenya
- 2017 “‘Flat’ Learning Alliance for Extension” pitch invitation as one of the inspire challenge finalists at the Big Data in Agriculture Convention 2017, Cali, Colombia