

Academic Curriculum Vitae

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Personal Information

Dr. Martin Loidl, MSc MSc BSc
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Research Interests

As a trained geographer, my research revolves around spatial aspects of human mobility. In this context, I am particularly interested in the digital representation of the mobility system, as well as in integrating domain knowledge from different fields (such as health, planning, transport engineering, psychology etc.) for a better understanding of the interdependencies between the physical and social environment on the one and mobility behaviour and patterns on the other side.

Education

- III 2017 PhD in Applied Geoinformatics (University of Salzburg)
“Spatial Information and Bicycling Safety” – passed with distinction
Supervisors: Univ. Prof. Dr. Josef Strobl & Dr. Stefan Krampe
- XI 2009 MSc in Landscape-, Regional- and Urban-Management (University of Salzburg)
“Development of an integrated workflow for assessing the aesthetic quality of urban landscapes” – passed with distinction
Supervisor: Univ. Prof. Dr. Andreas Koch
- IX 2009 MSc in Applied Geoinformatics (University of Salzburg)
“Development of a bicycle routing application for an urban environment” – passed with distinction
Supervisor: Prof. Dr. Josef Strobl
- X 2006 BSc in Geography (University of Salzburg)
Electives in ecology

Professional Appointments

- Since 2017 PostDoc Researcher
University of Salzburg, Department of Geoinformatics
Head of research group Mobility Lab
- Since 2019 Responsible coordinator for electives
University of Salzburg, Department of Geoinformatics
UNIGIS study program
- 2012 – 2017 Researcher
University of Salzburg, Department of Geoinformatics
Research group Mobility Lab
- 2009 – 2016 Tutor and lecturer
University of Salzburg, Department of Geoinformatics
UNIGIS Professional study program
- 2008 – 2009 GIS Analyst
Regioplan Ingenieure GmbH Salzburg

Publications

Peer reviewed journal articles

- Werner, C., Wendel, R., Kaziyeva, D., Stutz, P., van der Meer, L., Effertz, L., Zagel, B., Loidl, M. (2024). NetAScore: An open and extendible software for segment-scale bikeability and walkability. *Environment and Planning B: Urban Analytics and City Science*, 23998083241293177. <https://doi.org/10.1177/23998083241293177>
- Werner, C., van der Meer, L., Kaziyeva, D., Stutz, P., Wendel, R., & Loidl, M. (2024). Bikeability of road segments: An open, adjustable and extendible model. *Journal of Cycling and Micromobility Research*, 2, 100040. <https://doi.org/10.1016/j.jcmr.2024.100040>
- van der Meer, L., Werner, C., & Loidl, M. (2024). Assessment of bicycle accessibility to mobility hubs under different criteria for cycling network quality. *AGILE GIScience Ser.*, 5, 48. <https://doi.org/10.5194/agile-giss-5-48-2024>
- Kaziyeva, D., Stutz, P., Wallentin, G. & Loidl, M. (2023). Large-scale agent-based simulation model of pedestrian traffic flows. *Computers, Environment and Urban Systems* 105 (102021). <https://doi.org/10.1016/j.compenvurbsys.2023.102021>
- Loidl, M., Kaziyeva, D., Wendel, R., Luger-Bazinger, C., Seeber, M. & Stamatopoulos, C. (2023). Unlocking the Potential of Digital, Situation-Aware Nudging for Promoting Sustainable Mobility. *Sustainability* 15(14). <https://doi.org/10.3390/su151411149>
- Kaziyeva, D., Stutz, P., Wallentin, G. & Loidl, M. 2023. Agent-based simulation model of cyclists and pedestrians at a regional scale. *AGILE GIScience Ser.*, 4, 30. <https://doi.org/10.5194/agile-giss-4-30-2023>
- Werner, C., Füssl, E., Rieß, J., Resch, B., Kratochwil, F. & Loidl, M. (2022). A Framework to Facilitate Advanced Mixed Methods Studies for Investigating Interventions in Road Space for Cycling. *Sustainability*, 15. <https://doi.org/10.3390/su15010622>
- Werner, C., & Loidl, M. (2021). Bicycle Mobility Data: Current Use and Future Potential. An International Survey of Domain Professionals. *Data*, 6(11). <https://doi.org/10.3390/data6110121>
- Loidl, M. (2021). Datenverfügbarkeit für die räumliche Modellierung von Gefahrenbereichen im Straßenverkehr: Eine Untersuchung mittelgroßer Smart Cities in Europa. *AGIT: Journal für Angewandte Geoinformatik*, 7, 117-123. <https://doi.org/10.14627/537707014>
- Loidl, M., & Witzmann-Müller, U. (2021). Observing Cyclists' Mobility Patterns for better Decisions. *GI_Forum*, 9(1), 194-200. https://doi.org/10.1553/giscience2021_01_s194
- Kaziyeva, D., Loidl, M., & Wallentin, G. (2021). Simulating Spatio-Temporal Patterns of Bicycle Flows with an Agent-Based Model. *ISPRS International Journal of Geo-Information*, 10(2). <https://doi.org/10.3390/ijgi10020088>
- Loidl, M., Wagner, A., Kaziyeva, D., & Zagel, B. (2020). Bicycle Observatory – eine räumlich differenzierte, kontinuierliche Beobachtung der Fahrradmobilität. *AGIT: Journal für Angewandte Geoinformatik*, 6(6), 263-271. <https://doi.org/doi:10.14627/537698025>
- Schmied, C., Loidl, M., Rossi, V., Fernandez La Puente de Battre, M. D., Reich, B., Niebauer, J., & Niederseer, D. (2020). Dose-response relationship of active commuting to work: Results of the GISMO Study. *Scandinavian Journal of Medicine and Science in Sports*, 30(S1), 50-58. <https://doi.org/10.1111/sms.13631>
- Reich, B., Niederseer, D., Loidl, M., Fernandez La Puente de Battre, M. D., Rossi, V. A., Zagel, B., Caselli, S., Schmied, C., & Niebauer, J. (2020). Effects of active commuting on cardiovascular risk factors: GISMO a randomized controlled feasibility study. *Scandinavian Journal of Medicine and Science in Sports*, 30(S1), 15-23. <https://doi.org/10.1111/sms.13697>
- Neumeier, L. M., Loidl, M., Reich, B., Fernandez La Puente de Battre, M. D., Kissel, C. K., Templin, C., Schmied, C., Niebauer, J., & Niederseer, D. (2020). Effects of active commuting on health-related quality of life and sickness related absence.

- Scandinavian Journal of Medicine and Science in Sports, 30(S1), 31-40.
<https://doi.org/10.1111/sms.13667>
- Sareban, M., Dolores Fernandez La Puente de Batre, M., Reich, B., Schmied, C., Loidl, M., Niederseer, D., & Niebauer, J. (2020). Effects of active commuting to work for 12 months on cardiovascular risk factors and body composition. Scandinavian Journal of Medicine and Science in Sports, 30(S1), 24-30.
<https://doi.org/10.1111/sms.13695>
- Loidl, M., Stutz, P., Fernandez La Puente de Batre, M. D., Schmied, C., Reich, B., Bohm, P., Sedlacek, N., Niebauer, J., & Niederseer, D. (2020). Merging self-reported with technically sensed data for tracking mobility behavior in a naturalistic intervention study. Insights from the GISMO study. Scandinavian Journal of Medicine and Science in Sports, 30(S1), 41-49. <https://doi.org/10.1111/sms.13636>
- Fernandez La Puente de Batre, M. D., Moritz Neumeier, L., Ensslin, C., Loidl, M., Gräni, C., Schmied, C., Reich, B., Niebauer, J., & Niederseer, D. (2020). What it takes to recruit 77 subjects for a one-year study on active commuting. Scandinavian Journal of Medicine and Science in Sports, 30(6), 1090-1095.
<https://doi.org/10.1111/sms.13682>
- Loidl, M., Witzmann-Müller, U., & Zagel, B. (2019). A spatial framework for Planning station-based bike sharing systems. European Transport Research Review, 11(1).
<https://doi.org/10.1186/s12544-019-0347-7>
- Werner, C., Resch, B., & Loidl, M. (2019). Evaluating Urban Bicycle Infrastructures through Intersubjectivity of Stress Sensations Derived from Physiological Measurements. ISPRS International Journal of Geo-Information, 8(6).
<https://doi.org/10.3390/ijgi8060265>
- Niederseer, D., Schmied, C., Niebauer, J., & Loidl, M. (2019). GISMO - Geographical Information Support for Health Mobility - promoting active commuting as a novel option to counteract sedentary lifestyle. Scandinavian Journal of Medicine and Science in Sports. <https://doi.org/10.1111/sms.13533>
- Loidl, M., Werner, C., Heym, L., Kofler, P., & Innerebner, G. (2019). Lifestyles and Cycling Behavior—Data from a Cross-Sectional Study. Data, 4(4), 140.
<https://doi.org/10.3390/data4040140>
- Loidl, M. (2019). Spatial Information and Bicycling Safety. gis.Science - Die Zeitschrift für Geoinformatik, 2019(4), 133-140.
- Loidl, M., & Hochmair, H. (2018). Do Online Bicycle Routing Portals Adequately Address Prevalent Safety Concerns? Safety. <https://doi.org/10.3390/safety4010009>
- Wallentin, G., & Loidl, M. (2016). Bicycle-Bicycle Accidents Emerge from Encounters: An Agent-Based Approach. Safety, 2(2). <https://doi.org/10.3390/safety2020014>
- Loidl, M., Wallentin, G., Cyganski, R., Graser, A., Scholz, J., & Haslauer, E. (2016). GIS and Transport Modeling—Strengthening the Spatial Perspective. ISPRS International Journal of Geo-Information. <https://doi.org/10.3390/ijgi5060084>
- Loidl, M., Wallentin, G., Wendel, R., & Zagel, B. (2016). Mapping Bicycle Crash Risk Patterns on the Local Scale. Safety, 2(3). <https://doi.org/10.3390/safety2030017>
- Loidl, M., Traun, C., & Wallentin, G. (2016). Spatial patterns and temporal dynamics of urban bicycle crashes-A case study from Salzburg (Austria). Journal of Transport Geography, 52, 38-50. <https://doi.org/10.1016/j.jtrangeo.2016.02.008>
- Loidl, M., Zagel, B., & Wendel, R. (2015). Implementation systematischer Qualitätssicherungs- und Modellierungs Routinen bei der Verwendung von GIP-Daten. AGIT - Journal für Angewandte Geoinformatik, 175-184.
- Loidl, M., & Zagel, B. (2014). Assessing bicycle safety in multiple networks with different data models. GI_Forum. <https://doi.org/10.1553/giscience2014s144>
- Loidl, M., & Traun, M. (2013). The effect of ACRC on the results of cartographic classification depending on spatial autocorrelation. International Journal of Geoinformatics, 9(2), 29-36. <https://doi.org/10.52939/ijg.v9i2.140>

- Traun, C., & Loidl, M. (2012). Autocorrelation-Based Regioclassification - a self-calibrating classification approach for choropleth maps explicitly considering spatial autocorrelation. *International Journal of Geographical Information Science*, 26(5), 923-939. <https://doi.org/10.1080/13658816.2011.614246>
- Sagl, G., Loidl, M., & Beinat, E. (2012). A Visual Analytics Approach for Extracting Spatio-Temporal Urban Mobility Information from Mobile Network Traffic. *ISPRS International Journal of Geo-Information*, 1(3), 256-271. <https://doi.org/10.3390/ijgi1030256>

Peer reviewed conference papers

- Van der Meer, L., Abad, L., Lovelace, R., Gilardi, A., & Loidl, M. (2024). Analyzing real-world geospatial networks in R for sustainable transport planning. *UseR! 2024*, Salzburg, Österreich.
- Van der Meer, L., Esterle, L., Sharmin, F., Friis, G., Malm, S., Stelzmüller, C., Amaral, P., Leppen, G., Cools, M., & Loidl, M. (2024). The potential and challenges of digital twins for 15-minute cities. *Mobil.TUM 2024*, Munich, Bavaria, Germany.
- Werner, C. & Loidl, M. (2023). Betweenness Centrality in Spatial Networks: A Spatially Normalised Approach. In *Proceedings of 12th International Conference on Geographic Information Science (GIScience 2023)*, <https://doi.org/10.4230/LIPIcs.GIScience.2023.83>
- Van der Meer, L., Werner, C., & Loidl, M. (2023). Towards human-centric metrics of urban bikeability. *GIScience 2023*, Leeds, United Kingdom.
- Loidl, M., Werner, C., Füssl, E., Kratochwil, F. & Resch, B. (2023). A mixed methods approach for capturing interactions of cyclists with mobility space. *1st International Conference on Hybrid Societies*. Chemnitz, Germany.
- Luger-Bazinger, C., Marquez, R. M., Harms, C., Loidl, M., Kaziyeva, D., & Hornung-Prähauser, V. (2022). Ethics of digital, data-based nudges: The need for responsible innovation. In: *Proceedings of XXXIII ISPIM Innovation Conference*, Copenhagen, Denmark.
- Graser, A., Stutz, P., & Loidl, M. (2021). Tracks vs. Counters: Towards a Systematic Analysis of Spatiotemporal Factors Influencing Correlation. in S. Dodge (Ed.), *GIScience: Advancing Movement Data Science (AMD'21)*
- Loidl, M., Butzhammer, A., Castellazzi, B., Prinz, T., Wendel, R., & Zagel, B. (2018). Considering spatial determinants in promoting active, healthy commuting. *GI_Forum*. https://doi.org/10.1553/giscience2018_01_s162
- Zeile, P., Resch, B., Loidl, M., Petutschnig, A., & Dörrzapf, L. (2016). Urban Emotions and Cycling Experience – Enriching Traffic Planning for Cyclists with Human Sensor Data. *GI_Forum*. https://doi.org/10.1553/giscience2016_01_s204
- Wallentin, G., & Loidl, M. (2015). Agent-based bicycle traffic model for Salzburg City. *GI_Forum*.

Book chapters

- Loidl, M. (2020). Digital abstrahiert – räumliche Daten für die Mobilitätsforschung und Verkehrsplanung. in B. Zagel, & M. Loidl (Eds.), *Geo-IT in Mobilität und Verkehr: Geoinformatik als Grundlage für moderne Verkehrsplanung und Mobilitätsmanagement* (S. 33-51). Wichmann Verlag / VDE.
- Straub, M., Graser, A., Loidl, M., Zagel, B., & Witzmann-Müller, U. (2020). Effizient geteilt - räumliche Optimierung von Verleihsystemen. in B. Zagel, & M. Loidl (Eds.), *Geo-IT in Mobilität und Verkehr: Geoinformatik als Grundlage für moderne Verkehrsplanung und Mobilitätsmanagement* (S. 175-190). Wichmann Verlag / VDE.
- Loidl, M. (2016). Spatial information for safer bicycling. in *advances and new Trends in Environmental Informatics: Selected and Extended Contributions from the 28th*

- International Conference on Informatics for Environmental Protection (S. 219-235). Springer Verlag. https://doi.org/10.1007/978-3-319-23455-7_12
- Sagl, G., Loidl, M., & Resch, B. (2013). Visuelle Analyse von Mobilfunkdaten zur Charakterisierung Urbaner Mobilität. in Geoinformationssysteme 2013 (S. 72-79). Wichmann Verlag / VDE.

Edited book

- Zagel, B., & Loidl, M. (2020). Geo-IT in Mobilität und Verkehr: Geoinformatik als Grundlage für moderne Verkehrsplanung und Mobilitätsmanagement. Wichmann Verlag / VDE. <https://doi.org/10.14627/537682>

Research Grants	
2024 – 2027	KlimaFIT (FFG No. FO999913927): 112,085 € (85% funding) Total project budget: 574,867 € Lead: Trafficon GmbH
2024 – 2027	SAFARI (FFG No. FO999913576): 119,189 € (85% funding) Total project budget: 361,630 € Lead: Herry Consult GmbH
2023 – 2026	CITWIN (FFG No. FO999905451): 215,132 € (85% funding) Total project budget: 337,810 € (Austrian part in DUT project). Lead: University of Liège
2021 – 2024	DyMoN (FFG No. 886495): 153,500 € (85% funding) Total project budget: 580,000 € (Austrian part in JPI Europe project). Lead: Salzburg Research
2021 – 2023	EMP2EMP (FFG No. FO999887712): 78,000 € (60% funding) Total project budget: 426,000 €. Lead: triply GmbH
2021 – 2023	ActNow (FFG No. 884334): 56,500 € (60% funding) Total project budget: 847,000 €. Lead: netwiss OG
2020 – 2023	Bike2CAV (FFG No. 879632): 120,000 € (85% funding) Total project budget: 1,657,000 €. Lead: Salzburg Research
2020 – 2022	POSITIM (FFG No. 873353): 101,000 € (85% funding) Total project budget: 369,000 €. Lead: Spatial Service GmbH
2019 – 2022	SINUS (FFG No. 874070): 106,500 € (85% funding) Total project budget: 607,000 €. Lead: Trafficon GmbH
2018 – 2020	BICYCLE OBSERVATORY (FFG No. 865176): 174,000 € (85% funding) Total project budget: 436,000 €. Lead: PLUS
2017 – 2021	UML Salzburg (FFG No. 859080): 82,000 € (85% funding) Total project budget: 1,878,000 €. Lead: SIR
2016 – 2018	GISMO (FFG No. 854974): 103,500 € (85% funding) Total project budget: 400,000 €. Lead: PLUS
2016 – 2018	FamoS (FFG No. 855034): 93,000 € (85% funding) Total project budget: 348,000 €. Lead: TU Graz
2015 – 2017	BIKEALYZE (FFG No. 849075): 53,000 € (80% funding) Total project budget: 405,000 €. Lead: Salzburg Research

Contracted Consulting, Research & Development		
	2024	VISION: 37,537 € (subcontractor, total budget 78,750 €) Customer: con.sens verkehrsplanung zt gmbh, BMK
	2023 – 2025	LMI-Sustain: 22,994 € (together with partners, total budget 115,161 €) Customer: BMK (FFG No. FO999909876)
	2023 – 2024	Accessibility Analysis of Multi-modal Mobility Hubs: 13,550 € Customer: Research Studios Austria Forschungsgesellschaft mbH. Studio iSPACE
	2023	TRoute - Routing für europäische Bahnverbindungen – Lösungskonzepte: 12,550 € Customer: Traivelling GmbH
	2022 – 2024	VERA Verlagerungspotenzial von Radverkehrsanlagen: 64,946 € (together with partners, total budget 200,000 €) Customer: BMK (FFG No. FO999897371)
	2022 – 2024	RADBEST Radverkehrsführung bei beengten Straßenverhältnissen: 51,838 € (together with partners, total budget 300,000 €) Customer: BMK (FFG No. FO999897379)
	2022 – 2023	KOMOA Konzeptstudie für ein Mobility Observatory Austria: 114,307 € (together with partners, lead partner PLUS) Customer: BMK (FFG No. FO999894014)
	2021 – 2022	Feasibility study pedestrian and cycling data Uppsala (scientific advisory): 5,775 € Customer: Koucky & Partners
	2021 – 2022	Radreport Salzburg: 10,800 € Customer: Stadt Salzburg
	2021 – 2022	On-Demand-Planungstool für öffentliche Mobilitätsangebote: 109,500 € Customer: triply GmbH
	2020 – 2022	Räumliche Optimierung des Matchings für Carpooling: 113,100 € Customer: Carployee GmbH
	2019	Standortoptimierung von Haltestellen: 12,500 € Customer: triply GmbH
	2019	Co-Organisation Österreichischer Radgipfel: 13,000 € Customer: Stadt Graz
	2018	Potenzialstudie Smart Locker: 4,960 € Customer: Salzburg AG
	2018	Wissenschaftliche Begleitung Hauptradwegenetz Salzburg: 4,200 € Customer: con.sens GmbH
	2018	Organisation Europäischer Radgipfel: 22,000 € Customer: Stadt Salzburg
	2017	Wissenschaftliche Begleitung Radverkehrsstrategie: 10,560 € Customer: Stadt Salzburg

Conference Presentations	<p>2016 BSS Salzburg – Netzdesign, Prozessbegleitung: 21,000 € Customer: Stadt Salzburg, Salzburg AG</p> <p>2016 Potenzialanalyse Radverleihsystem Salzburg: 22,400 € Customer: Stadt Salzburg, Salzburg AG</p> <p>2015 Radlkarte XL: 20,000 € Customer: Land Salzburg</p> <p>2014 Radlkarte 2.0: 46,200 € Customer: Land Salzburg, Stadt Salzburg</p>
	<p>VI 2024 “Estimating the effects of newly built or extended bicycle infrastructure – Results from an expert panel and a literature review.” VeloCity Ghent, Belgium</p>
	<p>VI 2024 “Small nudges for changing mobility behaviour” Klimaaktiv Annual Conference Vienna, Austria</p>
	<p>IV 2024 “VERA – Verlagerungspotenzial von Radverkehrsanlagen” Österreichischer Radgipfel (Austrian Cycling Summit) Wiener Neustadt, Austria</p>
	<p>VII 2023 “Risk zones for cyclists at intersections” GI_Salzburg2023 Conference Salzburg, Austria</p>
	<p>VII 2023 “Spatial aspects of bicycle promotion” GI_Salzburg2023 Conference Salzburg, Austria</p>
	<p>III 2023 “A mixed methods approach for capturing interactions of cyclists with mobility space” 1st International Conference on Hybrid Societies Chemnitz, Germany</p>
	<p>IX 2022 “Where do bicyclists interact with other road users? Delineating potential risk zones in HD-maps.” International Cycling Safety Conference Dresden, Germany</p>
	<p>VII 2022 “KOMOA – Feasibility Study for a Mobility Observatory Austria” GI_Salzburg2022 Conference Salzburg, Austria</p>
	<p>VII 2022 “The multiple ROI of Active Mobility” GI_Salzburg2022 Conference Salzburg, Austria</p>
	<p>VI 2022 “Optimizing active commuting routes as a mean of health promotion” 19th International Medical Geography Symposium Edinburgh, Scotland</p>
	<p>VII 2021 “Datenverfügbarkeit für die räumliche Modellierung von Gefahrenbereichen im Straßenverkehr” AGIT Salzburg, Austria</p>
	<p>VII 2021 “Observing cyclists’ mobility patterns for better decisions” 12th International Symposium on Digital Earth ISDE12 Salzburg, Austria</p>
	<p>VII 2021 “Data for Sustainable Mobility” 12th International Symposium on Digital Earth ISDE12 Salzburg, Austria</p>
	<p>XII 2019 “Untersuchung des Wettereinflusses auf den Radverkehr in der Stadt Salzburg” AHORN Bernau, Germany</p>

- VI 2019 “Promoting active, healthy commuting”
VeloCity Dublin, Ireland
- VI 2019 “Looking at cycling mobility through geographical lenses”
VeloCity Dublin, Ireland
- VI 2019 “Bicycle Observatory: Multidimensional Monitoring of Cycling Mobility”
VeloCity Dublin, Ireland
- XI 2018 “GISMO – Supporting Healthy Commuting”
POLIS Conference Manchester, United Kingdom
- X 2018 “A very high-resolution bicycle flow model”
International Cycling Safety Conference Barcelona, Spain
- X 2018 “Pendelmobilität & Gesundheitsförderung - Das Projekt GISMO”
Walk-Space Conference Graz, Austria
- VI 2018 “Räumliche Information zur Modellierung von Radverkehrsflüssen”
GeoSummit Bern, Switzerland
- XII 2017 “Geography as melting pot for cross-domain bicycling research and promotion”
POLIS Conference Brussels, Belgium
- VI 2017 “The Spatial Perspective on Bicycling Research”
VeloCity Nijmegen, Netherlands
- VI 2017 “Geographical Information Support for Healthy Mobility – GISMO”
Walk-Space Conference Klagenfurt, Austria
- XI 2016 “Spatial information on bicycle crash risk for evidence-based interventions on the city-scale”
POLIS Conference Rotterdam, Netherlands
- XI 2016 “A review of current online bicycle routing portals and their potential role in promoting safer bicycling”
International Cycling Safety Conference Bologna, Italy
- VI 2016 “Open Government Daten (OGD) als Katalysator für innovative Informationsservices”
GeoSummit Bern, Switzerland
- XI 2015 “From Open Government Data (OGD) to a comprehensive bicycle routing portal”
POLIS Conference Brussels, Belgium
- IX 2015 “Spatial Analysis and Modelling of Bicycle Accidents and Safety Threats”
International Cycling Safety Conference Hannover, Germany
- VII 2015 “Die Qual der Wahl? - Worin sich OGD und OSM Daten für die Netzwerkmodellierung und -analyse unterscheiden”
AGIT OSM Spezialforum Salzburg, Austria
- VII 2015 “Implementation systematischer Qualitätssicherungs- und Modellierungsroutinen bei der Verwendung von GIP Daten”
AGIT Salzburg, Austria

	IV 2015	“An intrinsic approach for the detection and correction of attributive inconsistencies and semantic heterogeneity in OSM data” AAG Annual Meeting Chicago, USA
	IX 2014	“How GIS can help to promote safe cycling” EnviroInfo Oldenburg, Germany
	VII 2013	“Mapping your Mental Map” ESRI Education Conference San Diego, USA
	VII 2013	“Radlkarte Salzburg. Das Radroutingportal für die Stadt Salzburg” AGIT Salzburg, Austria
	VIII 2012	“The balance of value and space - Merging classification and regionalization to make more sense out of spatial data.” 36 th Annual Conference of the German Classification Society (GfKl) on Data Analysis, Machine Learning and Knowledge Discovery Hildesheim, Germany
	VII 2011	“Transactional Map Symbols” GI_Forum Salzburg, Austria
	VII 2010	“Wie sicher ist sicher? Innovatives Kostenmodell zur Ermittlung des Gefährdungspotentials auf Radwegen” AGIT Salzburg, Austria
	VII 2008	“Berechnung und Animation der Durchflussqualität eines innerstädtischen Verkehrsnetzes mit ArcGIS 9.2” AGIT Salzburg, Austria
Invited Talks, Lectures and Seminars	X 2023	Science talk “Health promotion and climate protection – effects of cycling promotion” APB Tutzing, Germany
	VI 2023	Science talk “Commuting by bike – what it brings and what it takes” Integion Consulting Munich, Germany (online)
	V 2023	Keynote talk “Return of investment of cycling promotion” Radvernetzungstreffen Salzburg, Austria
	II 2023	Science talk “Health effects related to mode choice” ivm.um.neun Frankfurt, Germany (online)
	II 2023	Science talk “Mobility and Health in a spatial context” CIVIS Hub 4 meeting Salzburg, Austria
	XII 2022	Science talk “Health promotion and climate protection – the double ROI of cycling promotion” APB Tutzing, Germany
	XI 2022	Lightning talk “The double ROI of cycling promotion: climate protection and health”

	Cycling Competence Vienna, Austria
V 2022	Science talk “No time for sports! – Commuting trips as fitnesscenters?” Lange Nacht der Forschung University of Salzburg, Austria
XII 2021	Lecture in lecture series “CRC Hybrid Societies” “Geographic coordinates as ‘primary key’ in mobility research” Technical University Chemnitz, Germany
XII 2021	Science talk “Health promotion and climate protection – the double ROI of cycling promotion” APB Tutzing, Germany
V 2021	Short intensive course “Cycling promotion – taking the next step” Salzburg Institut für Raumordnung und Wohnen Salzburg, Austria
IX 2020	Workshop lecture “Commuting trips as fitness centres“ mobility4work symposium Steyr, Austria
V 2020	Lecture in lecture series “Active Mobility” “Spatial data for gaining a better understanding of cycling mobility“ Technical University Vienna, Austria
IX 2019	Workshop lecture “Commuting trips as fitness centres“ Cross-border mobility in the alpine region symposium Dornbirn, Austria
IX 2019	Workshop lecture “Commuting trips as fitness centres“ AGFK academy Kißlegg, Germany
V 2019	Lecture “Interdisciplinary research as contribution to promoting active and healthy commuting” Annual meeting Austrian Society for Public Health Vienna, Austria
X 2018	Lecture “GIS connecting domains, research and teaching” Geoinformation Day HSR Rapperswil, Switzerland
IV 2018	Science talk “Show me where you’re living and I’ll tell you how you travel” Wissensdurst-Festival (Pint of Science) Salzburg, Austria
IV 2018	Lecture at teacher training “Workbench report GIS and mobility research” University of Salzburg, Austria
III 2018	Science talk “Healthier by car alternatives” Citizens action group Steyr, Austria
XI 2017	Lecture

		“Developing a tool for promoting healthy commuting” Forschungs Forum Mobilität Vienna, Austria
IX 2017	Lecture at “Sommerakademie” (together with A. v. Dulmen, C. Hebenstreit) “Traffic data and bicycle traffic modeling” Technical University Graz, Austria	
VI 2017	Lecture at Children’s University “Mit dem Fahrrad zur Schule. Aber sicher!” University of Salzburg, Austria	
IV 2017	Lecture in lecture series “Active Mobility” “Spatial information for safer bicycling” Technical University Vienna, Austria	
V 2016	Short intensive course “Using GPS and GIS” National park “Hohe Tauern”, Austria	
V 2015	Short intensive course “Using GPS and GIS” National park “Hohe Tauern”, Austria	
XII 2011	Short intensive course “Fundamentals of Geographic Information Systems” City administration Salzburg, Austria	
Awards	IX 2023 Best Poster Award. GIScience 2023 Leeds, UK (main author: Lucas van der Meer)	
	III 2023 Best Paper Award. 1 st International Conference on Hybrid Societies Chemnitz, Germany	
	IX 2018 VCÖ Mobilitätspreis, Verkehrsclub Österreich	
	VI 2016 Young Investigator Award at “NaWi Science Day”, University of Salzburg	
	IV 2015 Excellence in Teaching Award, University of Salzburg	
Scientific Advisory, Working Groups, University Committees, and Associations	Scientific advisory board 2024 ODTPR-SMS (ETH Zurich) 2021 – 2022 EFFECTS (Mobility of the Future BMK) 2019 – 2022 AMIGO (Interreg Alpenrhein – Bodensee – Hochrhein)	
	Committees Since 2018 Review Board Transport Research Arena (TRA) 2022 – 2023 Review Committee 1 st International Conference on Hybrid Societies 2023 Review Committee 9 th International Conference on Computational Social Science	
	University committees Since 2024 Deputy chair of CIVIS Hub 4 “Cities, spaces and mobilities” Since 2022 Board (representative of academic mid-level faculty, “Mittelbau”) of Faculty for Digital and Analytical Sciences	
	Scientific working groups and associations Since 2020 Interministerial working group “Sektorkopplung Gesundheit & Mobilität”	

	Since 2018	Scientists for Cycling, European Cycling Federation (ECF)
	Since 2015	Cycling Competence Austria
Review Activities		Academic journal reviews
		Accident Analysis and Prevention, Elsevier
		AGIT Journal, Wichmann / VDE
		Applied Geography, Elsevier
		Applied Sciences, MDPI
		Environment and Planning B: Urban Analytics and City Science, Sage Pub
		Geographical Analysis, Wiley
		GI_Forum Journal, Austrian Academy of Sciences Press
		GIScience, Wichmann / VDE
		International Journal of Geo-Information, MDPI
		International Journal of Geographical Information Science, Taylor & Francis
		International Journal of Sustainable Transportation, Taylor & Francis
		JMIR Aging, JMIR Publications
		Journal of Transport and Health, Elsevier
		Journal of Transport Geography, Elsevier
		Safety, MDPI
		Scientific Data, Springer Nature
		Scientific Reports, Springer Nature
		Sensors, MDPI
		Sustainability, MDPI
		Transportation Engineering, Elsevier
		Transportmetrica B: Transport Dynamics, Taylor & Francis
		Urban, Planning and Transport Research, Taylor & Francis
Teaching Experience	Since 2011	Introduction to Geoinformatics (6 ECTS) University of Salzburg, Department of Geoinformatics Online course, UNIGIS study program
	Since 2017	Contribution to lecture series GIScience (Spatial Information and Mobility Research) University of Salzburg, Department of Geoinformatics Lecture, MSc Applied Geoinformatics
	Since 2019	Coordination of elective course program (total 69 ECTS) University of Salzburg, Department of Geoinformatics Online course, UNIGIS study program
	Since 2024	Sustainable Mobility (4 ECTS) University of Salzburg, Cross-university teaching Seminar
	Since 2024	I3 Integrated Project (12 ECTS) University of Salzburg, Department of Geoinformatics Project lab course
	2024	Healthy Urban Systems (6 ECTS) University of Lausanne CIVIS Blended Intensive Program (BIP)
	2023	GIS and psychology meet for behavioural change in mobility (3 ECTS) University of Salzburg, Department of Geoinformatics International Summer School

	2023	Ideas Lab Mobility Management (4 ECTS) University of Salzburg, Cross-university teaching Seminar
	2011 – 2016	Thematic Cartography & Geovisualization (4 ECTS) University of Salzburg, Department of Geography and Geology Lab course, BSc Geography
Supervision		
	Phd	
	2023	L. van der Meer: “Happiness in the journey: recognizing the intrinsic value of mobility in the assessment of bicycle accessibility” (Co-Supervisor)
	2021	C. Werner: “Integrated spatial assessment of sustainable intermodal mobility” (Co-Supervisor)
	2018	D. Kaziyeva: “Advancing transport models using ABM and GIS” (Co-Supervisor)
	MSc	
	2024	F. Lutterbeck: “Walkability in Berlin: An analysis of the 12 districts”
	2024	M. Stobbelaar: “Cycling infrastructure assessment in Salzburg: Analyzing commute data to identify missing and insufficient bike infrastructure”
	2023	S. Pusch: “ Die Graphenintegrationsplattform GIP: Der digitale Verkehrsgraph der öffentlichen Hand in Österreich als Basis für ein LKW-Routing am Beispiel Oberösterreich”
	2023	J. Bouchain: “Crossing streets between intersections - Including informal crossings into a pedestrian network graph with complete sidewalk geometries”
	2022	E. Gaus: “What makes intersections hazardous for bicyclists? – A geospatial risk analysis”
	2022	B. Giesendorf: “ Ausbau der Ladeinfrastruktur für Elektromobilität in Städten – Eine räumliche Betrachtung zum Beitrag von privatwirtschaftlichen Unternehmen am Beispiel Köln und Düsseldorf“
	2022	T. Stadelmann: “Agent-based bicycle traffic flow simulation for the Lucerne agglomeration “
	2022	S. Roth: “Konnektivität der Radwegenetze und Radverkehrsanteil in deutschen Mittelstädten“
	2020	C. Werner: “Quantification of cyclists' stress for assessing infrastructure suitability”
	2020	M. Herbein: “Räumliche Variablen und sichere Radwege als Einflussfaktor auf die Wahl des Verkehrsmittels“
	2019	J. Rugtvedt: “A Dynamic Scale Approach for Assessing Bikeability with Sensitivity for Different User Groups”
	2019	P. Stutz: “Enhancing the validity of a long-term travel diary survey with GNSS-data to evaluate the dose of mobility for daily commuting”
	2018	E. Westermeier: “Contextual Trajectory Modeling and Analysis”
	2015	R. Wendel: “GIS-based Bicycle Transportation Planning: New Ways to Enhance Bicycle Safety” (Co-Supervisor)
	BSc	
	2023	R. Kimanoglu: “From Parts to Functionality: An Analysis of the OpenBikeSensor Building Process”
	2023	L. C. Effertz: “Sustainable Mobility - Auswirkung bestehender Mobilitätsangebote und deren Verfügbarkeit auf die Wahl des Verkehrsmittels im Universitären Umfeld“
	2018	S. Schönamsgruber: “Zeitliche, saisonale und wetterbedingte Schwankung des Radfahrervolumens am Beispiel der Stadt Salzburg“

Languages and Skills	<p>Language</p> <p>German (native)</p> <p>English (advanced – proficient)</p>
	<p>Teaching skills</p> <p>Classroom and lab courses</p> <p>Blended and online teaching</p> <p>Summer school</p>
	<p>Organizational and communication skills</p> <p>Project management: coordination of collaborative research projects</p> <p>Internal organization: heading a research group, deputy research coordinator at department</p> <p>Funding acquisition: proposal writing</p> <p>Chairing: organization, chairing and moderation of workshops, panel discussions, paper sessions, scientific meetings</p> <p>Public relations: writing press texts, interviews for print and broadcasting</p> <p>Science communication: third mission activities for pupils and the general public</p>
	<p>Technical skills</p> <p>GIS software (proprietary and OpenSource, desktop, server, cloud)</p> <p>Graphic software (Adobe Illustrator, Photoshop)</p> <p>Web editing software (Adobe Dreamweaver)</p> <p>CMS (Wordpress, Typo3)</p> <p>BI software (Tableau)</p>