

Dr Tumasch Reichenbacher

MSc Geography



Date and place of birth
Nationality

Personal information

April 9, 1969, Scuol (Switzerland)
Swiss & German

EDUCATION

01/2001 – 02/2004

09/1992 – 07/1993

10/1989 – 06/1995

02/1989 – 06/1989

04/1982 – 09/1988

Studies

PhD, Technical University Munich

Thesis «Mobile cartography and adaptive geographic information visualisation» (summa cum laude)

University of Sheffield, U.K. (ERASMUS programme)

University of Zürich

- ▶ MSc in **Geography** (major in GIScience)

ETH Zürich

- ▶ **Cartography** and **Geology** (minors)

Military service

Basic military service, Monte Ceneri, Switzerland

Grammar school

Kantonsschule Zürich Oerlikon, Zurich, Switzerland

PROFESSIONAL EXPERIENCE

03/2019 – now

06/2017 – 02/2019

06/2015 – 05/2017

03/2014 – 05/2015

09/2011 – 02/2014

Positions

Senior lecturer – University of Zürich

- ▶ research, teaching
- ▶ lab manager

Key Account Manager – Esri Schweiz AG, Zürich

- ▶ customer success management for major Esri clients, e.g. Swisstopo, BAFU, BFS
- ▶ trainer for Esri ArcGIS platform and ArcGIS Pro / ArcGIS Online

Various Project management mandates

GIS Specialist – BERNMOBIL, Public Transport Authority, Bern, Switzerland

- ▶ feasibility study for GIS implementation, requirement analysis, data flow analysis; developing a geodata strategy
- ▶ quality analysis of real-time prognoses of the Intermodal Transport Control System, data analysis and statistical analysis

Consulting GIS / Data Science / Geovisualisation

- ▶ interactive client map for company Apricore AG, Greifensee, Switzerland

Lecturer and Project manager – University of Zürich

Department of Geography, Geographic Information Visualization and Analysis

- ▶ empirical studies of geovisualisation on small screens with mobile eyetracking
- ▶ teaching postgraduate courses, supervising MSc theses

Freelance scientific reviewing & research project management Parental leave

- ▶ managing research projects for University of Zurich
- ▶ trainer for interactive whiteboards at schools in Munich, Germany

04/2007 – 08/2011

Lecturer – University of Zürich

Department of Geography, Geographic Information Visualization and Analysis

- ▶ **research** in the field of mobile geographic information visualisation services, modelling the relevance of geographic information, spatial analysis und geographic information visualisation
- ▶ **publishing** and presentations at national and international conferences
- ▶ managing teaching and **teaching** activities in GIS, geographic information visualisation, statistics, empirical evaluations and usability
- ▶ supervising Master and Doctoral theses
- ▶ **leading** project «GeoRel» (funded by Swiss National Science Foundation)
- ▶ peer-reviewing for scientific journals, conference committees, and research councils
- ▶ organising field trips and conferences; administrative tasks

09/2004 – 12/2004

Visiting scholar, Finnish Geodetic Institute, Masala/Helsinki

05/1999 – 03/2007

Research assistant – Technical University Munich

Geodesy and Geoinformation, Chair of Cartography

- ▶ **research** in the field of mobile cartography, spatial analysis, and GIS
- ▶ **publishing** and presentations at national and international conferences
- ▶ managing teaching and **teaching** activities in thematic cartography, webmapping, spatial analysis, GIS, and geomarketing
- ▶ **supervising** MSc theses; organising field trips, exhibitions
- ▶ collaboration in faculty commissions

08/1996 – 04/1999

GIS Product Manager – Orell Füssli Kartographie AG, Zürich

- ▶ **GIS-based production** and updating (Intergraph MGE) of maps according to client specifications, converting data and pre-press processes
- ▶ administration of GIS (MGE & Arc/Info) & Geodatabase (Oracle)
- ▶ developing & implementing digital workflows, augmenting efficiency & quality
- ▶ various map projects (e.g. data modelling for pilot project Geological Atlas of Switzerland 1:25K; Language Atlases, Land Use Planning Maps)

07/1995 – 12/1996

Research assistant – ETH Zürich

Institute of Cartography and Geoinformation

- ▶ developing digital production workflows for GIS-based maps for the «Atlas of Switzerland»
- ▶ teaching «Computer-supported Cartography» and CAS «Spatial Information Systems»
- ▶ supervising students in the course «Digital Cartography»

PROJECTS

07/2015 – 10/2015

Project manager – innovation.tank, Olten

- ▶ leading a project team working on a concept study for a mobile App aimed at helping dementia patients

10/2014 – 01/2015

Project manager – Department of Geography, University of Zürich

- ▶ successful management of VR-Lab reconstruction project
- ▶ teaching activities in MSc curriculum

07/1992 – 08/1992

Geodata Weibel, Horgen

09/1993 – 12/1993

- ▶ digitizing of maps for forest management
- ▶ production of digital soil maps and orthophoto maps with Arc/Info
- ▶ capturing and analysing potentially polluted areas with Arc/Info

03/1994 – 08/1994

Project manager – Department of Geography, University of Zürich

Project «MarktGIS» in cooperation with Spaltenstein Real Estate AG, Zurich

- ▶ specifying requirements for modelling real estate assessments with GIS
- ▶ building a database in Arc/Info (conflating heterogeneous data)
- ▶ developing utility indicator and location model, running pilot study
- ▶ communicating and reporting project results

Refereed papers

Reichenbacher, T., De Sabbata, S., Purves, R. & Fabrikant, S. Assessing geographic relevance for mobile search: a computational model and its validation via crowdsourcing. *Journal of the Assoc. for Information Science and Technology*, 67(11), 2016 :2620–2634

De Sabbata, S., Mizzaro, S. & **Reichenbacher, T.** Geographic dimensions of relevance. *Journal of Documentation* 71(4), 2015: 650–666

Crease, P. & **Reichenbacher, T.** Linking time geography and activity theory to support the activities of mobile information seekers. *Transactions in GIS* 17(4), 2013: 507–525

De Sabbata, S. & **Reichenbacher, T.** Criteria of geographic relevance: an experimental study. *International Journal of Geographical Information Science* 26(8), 2012: 1-26

Reichenbacher, T. & De Sabbata, S. Geographic relevance – different notions of geographies and relevancies. *ACM SIGSPATIAL Special* 3(2), July 2011: 67–70

Coeltekin, A. & **Reichenbacher, T.** High Quality Geographic Services and Bandwidth Limitations. *Future Internet* 3(4), 2011: 379-396

Swienty, O., **Reichenbacher, T.**, Reppermund, S., Zihl, J. The role of relevance and cognition in attention-guiding geovisualisation. *The Cartographic Journal* 45(3), 2008: 227-238

Swienty, O., Kurz, F., **Reichenbacher, T.** Attention-guiding visualisation in remote sensing IIM systems. *Photogrammetrie–Fernerkundung–Geoinformation*, Vol. 4, 2007, p. 239-251

Reichenbacher, T. Adaptive Kartengestaltung für mobile Nutzer. *KN* 55(4), 2005: 175 – 180

Reichenbacher, T. Adaptive concepts for a mobile cartography. *Journal of Geographical Sciences, Acta Geographica Sinica*, Vol.11 (Supplement), 2001: 43-53

Conference Papers (refereed)

De Sabbata, S. & **Reichenbacher, T.** Computing geographic relevance in mobile information services. *Proc. Context-Awareness in Geographic Information Services (CAGIS 2014)*, 2014

Reichenbacher, T. Geographic relevance in mobile services. *Proceedings of the 2nd International Workshop on Location and the Web*. Boston, Massachusetts, April 4, 2009. ACM Vol. 370. 2009

Swienty, O., Zhang, M., **Reichenbacher, T.**, Meng, L. Establishing a neurocognition-based taxonomy of graphical variables for attention-guiding geovisualisation. *Proceedings of SPIE, Geoinformatics 2007*, Nanjing, China. May 26-28, 2007, Vol. 6751

Swienty, O., Zhang, M., **Reichenbacher, T.** Attention Guiding Visualization of Geospatial Information. In: Wu, H. and Zhu, Q. (eds), *Proceedings of SPIE, Geoinformatics 2006*, Wuhan, October 28-29, 2006, Vol. 6421, 2006: 1-12

Weibel, R., Keller, S., **Reichenbacher, T.** Overcoming the Knowledge Acquisition Bottleneck in Map Generalization: The Role of Interactive Systems and Computational Intelligence. Frank, A.U., Kuhn, W. (eds) *Spatial Information Theory: A Theoretical Basis for GIS*. Lecture Notes on Computer Science, Berlin: Springer, Vol. 988, 1995: 139-156

Conference Papers (Abstracts refereed)

Crease, P. & **Reichenbacher, T.** An Empirical Investigation into the Comprehension of Spatio-Temporal Proximity from Mobile Maps. *Proceedings of the 9th Symposium on LBS 2012*, October 16 - 18, 2012, Technical University of Munich, Germany

Crease, P. & **Reichenbacher, T.** Designing Usable Cartographic Representations of Geographic Relevance for LBS Users. *Proceedings of the 25th International Cartographic Conference*. (CD-ROM), Paris (France), July 3-8, 2011

De Sabbata, S. & **Reichenbacher, T.** A Probabilistic Model of Geographic Relevance. *Proceedings GIR'10 - 6th Workshop on Geographic Information Retrieval*. Zurich, Switzerland, 2010

Heil, B. & **Reichenbacher, T.** Geographic Information Interfaces and the use of guidelines to obtain usability. *Proceedings of the 24th International Cartographic Conference (CD-ROM)*, Santiago (Chile), 2009

Reichenbacher, T., De Sabbata, S., Crease, P. The Concept of Geographic Relevance. In: *Proceedings 6th International Symposium on LBS & TeleCartography CGS*, University of Nottingham, UK, September, 2-4 2009

Swienty, O. & **Reichenbacher, T.** Evaluating the visual scanning efficiency of geovisualisation displays. Proceedings of Workshop on Geospatial Visual Analytics, GIScience 2008, Park City (UT), USA, 2008 (online Proceedings)

Reichenbacher, T. & Swienty, O. Attention-guiding geovisualisation. Proceedings of the 10th AGILE International Conference on Geographic Information Science (CD-ROM), Aalborg, Denmark. May 8-11, 2007

Reichenbacher, T. The Importance of Being Relevant. Proceedings of the 22nd International Cartographic Conference (CD-ROM), A Coruña (Spain), 2005

Reichenbacher, T. Adaptive Methods for Mobile Cartography. Proceedings of the 21st International Cartographic Conference (CD-ROM), Durban (South Africa), 2003

Yu, Z. Yingjie Wang, Y., **Reichenbacher, T.** User Modelling for Geo-Database Adaptation. Proceedings of the 21st International Cartographic Conference (CD-ROM), Durban (South Africa), 2003

Edwardes, A. J., Burghardt, D., Bobzien, M., Harrie, L., Lehto, L., **Reichenbacher, T.**, Sester, M. & Weibel, R. Map generalisation technology: addressing the need for a common research platform. Proceedings of the 21st International Cartographic Conference (CD-ROM), Durban (South Africa), 2003

Reichenbacher, T. The World in Your Pocket - Towards a Mobile Cartography. Proceedings of the 20th International Cartographic Conference (CD-ROM), Beijing (China), 2001

Reichenbacher, T. Knowledge Acquisition in Map Generalization Using Interactive Systems and Machine Learning. Proceedings of the 17th International Cartographic Conference, Barcelona, 1995: 2221-2230

Conference Papers (not refereed)

Meng, L. & **Reichenbacher, T.** Geodienste, Location Based Services und Geovisualisierungsdienste. 8. Münchner Fortbildungsseminar Geoinformationssysteme. Tagungsband, 2003: 1-12

Reichenbacher, T. SVG for adaptive visualisations in mobile situations. Proc. SVG Open Conference (CD-ROM), Zurich, 2002

Book Chapters (refereed)

Reichenbacher, T. Mobile Usage and Adaptive Visualization. Shekhar, Shashi; Xiong, Hui (eds) Encyclopedia of GIS. Part 16. Heidelberg: Springer, 2008: 677-682

Reichenbacher, T. The concept of relevance in mobile maps. In: Gartner G., Cartwright, W., and Peterson, M. (eds) Lecture Notes in Geoinformation and Cartography. Location Based Services and TeleCartography, Heidelberg: Springer, 2007: 231-246

Reichenbacher, T. Adaptive egocentric maps for mobile users. In: Meng, L., Zipf, A., Reichenbacher, T. (eds) Map-based Mobile Services. Theories, Methods and Implementations. Heidelberg: Springer, 2005: 141 – 158

Publications in Journals, Books (not refereed)

Reichenbacher, T. Kartographie in der mobilen digitalen Welt. In: Beineke, D., Heunecke, O, Horst, T., Kleime, U. (eds) Festschrift Univ.-Prof. Dr.-Ing. Kurt Brunner, Schriftenreihe Inst. für Geodäsie, Univ. der Bundeswehr München, Heft Nr. 87, Neubiberg, 2012: 179-188

Reichenbacher, T. Die Bedeutung der Relevanz für die räumliche Wissensgewinnung. In: K. Kriz, W. Kainz, A. Riedl (eds), Geokommunikation im Umfeld der Geographie, Wiener Schriften zur Geographie und Kartographie, Band 19. 2009: 85-90

Reichenbacher, T. Adaption in mobile and ubiquitous cartography. In: Cartwright, W., Peterson, M. and Gartner G. (eds) Multimedia Cartography (2nd ed) Heidelberg: Springer, 2007: 383-397

Reichenbacher, T. & Swienty, O. Relevanz und Kognition in der mobilen Kartographie. In: DGfK (ed) Tagungsband zu GEOVIS 2006, Kartographische Schriften, Band 10, Bonn: Kirschbaum, 2006: 83–90

Reichenbacher, T. & Swienty, O. Saliente Visualisierung relevanter Geoinformation. In: K. Kriz, W. Cartwright, A. Pucher, M. Kirnberger (eds), Kartographie als Kommunikationsmedium, Wiener Schriften zur Geogr. und Kartographie, Bd. 17 2006: 158-165.

Reichenbacher, T. & Meng, L. [guest editors]: Themenheft Mobile Kartographie. Kartographische Nachrichten, 53(1 & 2), 2003

Reichenbacher, T. Mobile Kartographie und ihre Nutzer - Szenarien adaptiver Visualisierung mobiler Benutzeraktivitäten. In: DGfK (ed) Tagungsband zu GEOVIS 2003, Kartographische Schriften, Band 7, Bonn: Kirschbaum, 2003: 111-120

Reichenbacher, T. Mobile Cartography - The World In Your Pocket. Geoinformatics 6(9), 2003

Reichenbacher, T. & Töllner, D. Design of an adaptive mobile geovisualisation service. In: Gartner, G. (eds) Proc. Symposium Location Based Services & Telearcartography 2004, TU Wien, Geowissenschaftliche Mitteilungen, Heft Nr. 66, 2004: 17-23

Reichenbacher, T. Adaptive Visualisierung von Geodaten für Location Based Services – ein konzeptionelles Framework. In: F. Kelnhofer, F., Lechthaler M., Brunner, K. (eds) Proc. Symposium Location Based Services & Telearcartography 2002, TU Wien, 28. – 29. Januar 2002. Geowissenschaftliche Mitteilungen, Heft Nr. 58. 2002: 125-134

Reichenbacher, T. Der mobile Mensch – eine Herausforderung für die Kartographie. In: DGfK (ed) Kartographie als Baustein moderner Kommunikation. Tagungsband zum Symposium 2002, Kartographische Schriften, Band 6, 2002, Bonn: Kirschbaum: 16-21

Reichenbacher, T., Angsüsser, S., Meng, L. Mobile Kartographie - eine offene Diskussion. KN 52(4), 2002: 164-166

Reichenbacher, T. Adaptive und kontextbezogene Visualisierung für mobile Benutzer. Kartographie 2001 - multidisziplinär und multidimensional, Beiträge zum 50. Deutschen Kartographentag in Berchtesgaden, Heidelberg: Wichmann, 2001: 269-290

Reichenbacher, T. Eine Methode für den Wissenserwerb in der Kartographischen Generalisierung durch Interaktionsaufzeichnung und Induktives Lernen. Diplomarbeit. Geoprocessing Series, Vol. 30. Geographisches Institut, Universität Zurich, 1996

Book publications

Reichenbacher, T. Mobile Cartography – Adaptive Visualisation of Geographic Information on Mobile Devices. Dissertation. München: Verlag Dr. Hut, 2004

Meng, L., Zipf, A., **Reichenbacher, T.** (eds) Map-based Mobile Services. Theories, Methods and Implementations. Heidelberg: Springer, 2005

Fabrikant, S., **Reichenbacher, T.**, van Kreveld, Marc, Schlieder, Christoph (eds) Geographic Information Science – 6th International Conference, GIScience 2010. Lecture Notes in Computer Science, Vol. 6292. Heidelberg: Springer, 2010

RESEARCH GRANTS

2009 – 2012

Geographic relevance in mobile applications (GeoRel)

Swiss NSF Project 200021_119819

1 PhD position January 2009 – December 2011

Grant: 156'425 CHF

Geographic relevance in mobile applications (GeoRel II)

Swiss NSF Project 200020_137647; 1 PhD position January 2012 – November 2012

Grant: 50'849 CHF

Development and Implementation of Geofoveation (GeoF)

Swiss NSF Project 200021_120434; 1 PhD position January 2009 – December 2010

Grant: 95'475 CHF

Development and Implementation of Geofoveation (GeoF II)

Swiss NSF Project 200020_132805; January 2011 – December 2012

Grant: 113'085 CHF

PRESENTATIONS

International Conferences & Workshops

Knowledge Acquisition in Map Generalization using Interactive Systems and Machine Learning. Workshop on Progress in Automated Map Generalization der ICA Working Group on Map Generalization (02.09.1995). Barcelona (Spain). September 1-3, 1995.

Knowledge Acquisition in Map Generalization using Interactive Systems and Machine Learning (07.09.1995). 17th International Cartographic Conference. Barcelona. September 3-9, 1995.

The World in Your Pocket – Towards a Mobile Cartography (07.08.2001). 20th International Cartographic Conference. Beijing (China). August 6-10, 2001.

Adaptive Visualisierung von Geodaten für Location Based Services – ein konzeptionelles Framework (29.01.2002). Symposium TeleKartographie & Location Based Services. TU Wien. January 28-29, 2002.

Was ist so mobil an mobilen Karten? – Poster presentation with Stephan Angsüsser – (04.07.2002). AGIT 2002. Salzburg (Austria). July 3-5, 2002.

SVG for adaptive visualisations in mobile situations (17.07.2002). SVG Open Conference. ETH Zürich. July 15-17, 2002.

Adaptive Methods for Mobile Cartography (15.08.2003). 21st International Cartographic Conference. Durban (South Africa). August 10-16, 2003.

Design of an adaptive mobile geovisualisation service (28.01.2004). 2nd Symposium on Location Based Services & Telecartography. Technische Universität Wien. January 28-29, 2004.

The Importance of Being Relevant (15.07.2005). 22nd International Cartographic Conference. A Coruña (Spain). July 10-16, 2005.

Salient visualisation of relevant geospatial information (12.07.2006). Gicon Conference – Mitteleuropäischer Kartographentag. Universität Wien. July, 10-12, 2006.

Attention-Guiding Geovisualisation (11.05.2007). 10th AGILE International Conference on Geographic Information Science. University of Aalborg (Denmark). May 8-11, 2007.

The Role of Relevance and Cognition in Attention-Guiding Geovisualisation (03.08.2007). Meeting ICA Commission on Visualization and Virtual Environments. «Workshop From geovisualization toward geovisual analytics». Helsinki Technical University. August 2-3, 2007.

Evaluating the visual scanning efficiency of geovisualisation displays (23.09.2008). Workshop on GeoSpatial Visual Analytics, GIScience 2008, Park City (UT), USA.

Geographic relevance in mobile services (04.04.2009). LocWeb 2009 – Second International Workshop on Location and the Web in Conjunction with CHI 2009, Boston MA.

Die Bedeutung der Relevanz für die räumliche Wissensgewinnung Leitthemensitzung Geokommunikation – Informationssysteme zur Wissensgewinnung – Gefahren und Potenziale. Deutscher Geographentag 2009, Wien, September 19-26, 2009.

New trends in mobile cartography (17.12.2012). Seminar «Designing of mobile geoinformation systems». Warsaw University of Technology. Warsaw (Poland), (invited talk).

A tool for generating testable pop-out effects in geovisual displays – Poster presentation – (16.07.2019). 29th International Cartographic Conference. Tokyo (Japan). July 15-20, 2019.

National Conferences & Workshops

Adaptive visualisation for mobile users (11.08.2001). Joint Workshop an der Chinese Academy of Science. Beijing (China). (invited paper).

Adaptive und kontextbezogene Visualisierung für mobile Benutzer (03.10.2001). Kartographie 2001 – multidisziplinär und multidimensional. 50. Deutscher Kartographentag. Berchtesgaden. October 6-10, 2001.

Der mobile Mensch – eine Herausforderung für die Kartographie (06.05.2002). Symposium Praktische Kartographie der Deutschen Gesellschaft für Kartographie. Königslutter am Elm. May 6-8, 2002.

Mobile Kartographie und ihre Nutzer – Szenarien adaptiver Visualisierung mobiler Benutzeraktivitäten (27.02.2003). GEOVIS 2003 – Aktuelle Entwicklungen in Geoinformation und Visualisierung. Universität Hannover. February 26-27, 2003.

Geodienste – Location Based Services – Geovisualisierungsdienste (12.03.2003). 8. Münchner Fortbildungsseminar Geoinformationssysteme. Technische Universität München. March 12-14, 2003.

Von Karten über LBS zu mobilen Geovisualisierungsdiensten – Forschungsfragen und Lösungsansätze (16.09.2003). Geodätische Woche an der Intergeo 2003. Hamburg. September 16-19, 2003.

Adaptive Kartengestaltung für mobile Benutzer (14.10.2004). 53. Deutscher Kartographentag. Stuttgart. October 13-15, 2004.

Adaption und Relevanz in der mobilen Geovisualisierung (10.06.2008). Mobile GIS: Workshop an der GIS/SIT 2008, Universität Zürich.

Scientific Colloquia

On the use of adaptation concepts for mobile cartography (22.10.2004). GiMoDig workshop. Finnish Geodetic Institute. Masala (Finnland). October 21-22, 2004. (invited paper).

Karten im Mobilfunkzeitalter – ein Plädoyer für eine mobile Kartographie (16.12.2004). Geomatikseminar. ETH Zürich. (invited paper).

Adaption an den Nutzungsraum – eine moderne Methode der mobilen Geovisualisierung (10.01.2007). Zürcher Geographisches Kolloquium. Universität Zürich (invited paper).

Mobile Kartographie (13.12.2007). Kolloquium. FH Nordwestschweiz, Muttenz (invited paper).

Von Ptolemäus zu Google: Chancen und Herausforderungen der mobilen Geokommunikation (25.01.2008). Kolloquium, Technische Universität Dresden (invited paper).

Medientechnische Realisierung einer Geovisualisierung am Beispiel einer Naturkatastrophe für ein mobiles Endgerät (04.05.2009). Kolloquium, Hochschule München (invited paper).

Das Relevanzprinzip in der mobilen Geovisualisierung (27.04.2010). Kolloquium, Geographisches Institut, Universität Heidelberg (invited paper).

Konzepte zur Aufteilung des Raumes in Datenbankmanagementsystemen für den effektiven Zugriff auf Geodaten (04.05.2011). Kolloquium, University of Trier (invited paper).

Perspektiven einer theoriegestützten, modernen Kartographie – ausgewählte Forschungsthemen der Geovisualisierung (04.05.2011). Kolloquium, University of Trier (invited paper).

Kartographische Aspekte bei der Generalisierung und Visualisierung von topographischen und thematischen Karten unterschiedlicher Maßstäbe und Ausgabemedien (27.06.2011). Kolloquium, University of Applied Sciences, Munich, (invited paper).

Mobile Kartographie – Generalisierung, Relevanz und Adaption (27.06.2011). Kolloquium, University of Applied Sciences, Munich (invited paper).

A spatial perspective on complexity – geoanalytics and visual representation (03.04.2017). Complexity Science Hub Vienna, Vienna (invited paper).

Presentations for the public

Die (neue) Rolle der Kartographie in Location Based Services (06.02.2002). Vortragsreihe der Deutschen Gesellschaft für Kartographie Sektion Bayern. FH München. (invited paper).

Adaptive visualisation for mobile users (11.11.2004). Gastvorlesung an der Helsinki University of Technology. Espoo (Finnland). (invited paper).

Aktuelle Themen der mobilen Kartographie (17.11.2005). DGfK Berlin-Brandenburg. Berlin. (invited paper).

Saliente Visualisierung relevanter Geoinformation (14.12.2006). DGfK Hannover. Hannover. (invited paper).

Möglichkeiten der modernen Kartographie für die mobile Geovisualisierung (17.10.2007). DGfK Sektion Stuttgart. (invited paper).

Möglichkeiten der modernen Kartographie für die mobile Geovisualisierung (18.10.2007). DGfK Hannover. Freiburg i. Br. (invited paper).

Geovisualisierung – Forschung zur Geographischen Informationsvisualisierung und Analyse (18.04.2008). Projekt-Meeting Gemeinsame Plattform für Naturgefahren, Meteo Schweiz (invited paper).

Aktuelle Forschungsthemen der mobilen Geoinformationsvisualisierung (23.06.2008). ewz, Zürich. (invited paper).

Konzeption und Evaluation mobiler Karten – ausgewählte Forschungsthemen der Geovisualisierung (27.10.2011). Deutsche Gesellschaft für Kartographie – Bayern, München (invited paper).

Wie viel Komplexität verträgt der User? Content & Verpackung in der Geovisualisierung (22.05.2013). Zeix AG – Agentur für User-Centered Design, Zürich. (invited paper).

TEACHING

2018

2003 – 2011

2006, 2008

Lectureships

University of Zurich; BSc course GEO123.1 Introduction to Cartography and Geovisualisation

University of Armed Forces, Munich, Germany, advanced cartography course

Carinthia University of Applied Sciences Villach, Austria; course on user interface design for geographic information

Courses

University of Zurich

1991 Statistical Analysis in Geography (Labs 2 hours/week): Tutor

1991 Geographic Information Systems I (Labs 2 hours/week): Tutor

1992 Geographic Information Systems II (Labs 2 hours/week): Teaching Assistant

- 2006, 2008 Seminar Geographic Information Science A (Seminar 2 hours/week): with Dr Ostermann
- 2007 – 2009 Geographic Information Visualisation (Labs 2 hours/week): Teaching Assistant
- 2009, 2011 Introduction to Statistics for Geographers (Lecture 2 hours/week) with Prof. Dr Fabrikant
- 2010, 2011 Geographic Information Visualisation (Lecture 2 hours/week) with Prof. Dr Fabrikant
- 2014 Geographic Information Visualisation (Lecture 2 hours/week) with Dr Coeltekin
- 2018 Introduction to Cartography and Geovisualisation (Lecture 2 hours/week) with Dr Janetzko
- 2019 Introduction to Cartography and Geovisualisation (Lecture 2 hours/week)
- 2019 Small Teaching Group (Tutorial)

ETH Zurich

- 1995/1996 CAS Spatial Information Systems, Cartography (Labs 1 hour/week): GIS-Demo
- Computer-Assisted Cartography (Labs 2 hours/week): Teaching Assistant

Technical University Munich

- 1999–2006 Introduction to Cartography (Labs 2 hours/week): Teaching Assistant
- Thematic Cartography (Labs 2 hours/week): Teaching Assistant
- 1999–2001 Topographic Cartography II (Labs 2 hours/week): Teaching Assistant
- Cartographic Field Project (Labs 2 hours/week): Teaching Assistant
- 1999–2004 Analysis of Geographic Data (Labs 2 hours/week): Teaching Assistant
- Computer Graphics and Visualization (Labs 2 hours/week): Teaching Assistant
- 2003–2006 Geodetic Seminar (Seminar 2 hours/week): Supervisor
- Int. Master Program Land Management and Land Tenure, Cartography, (Lecture/Labs)
- 2006 Geostatistics and Geomarketing (Labs 1 hour/week): Teaching Assistant

SUPERVISED THESES

Diploma

- Diploma Theses (Technical University Munich)
- Michael Schmittdorsch, April 2000: Aufbau eines Praktikums für 2D- und 3D-Analysen in Geoinformationssystemen am Beispiel des Referenz-GIS "Nationalpark Bayerischer Wald
- Thomas Bach, January 2002: Entwurf eines Geoinformationssystems für das antike Areal von Selinunte/Sizilien
- Markus Knoll, July 2002: Einsatzmöglichkeiten von XML/SVG für die mobile Kartographie
- Dorothee Dittrich, November 2003: Gestaltungsgrundlagen für mobile Geovisualisierungsdienste
- Sebastian Abel, April 2005: Mobile Kartographie für alpine Nutzer - Anforderungsstudie für PDA-basierte Systeme
- Julia Ines Müller, March 2007: Mobile Objekte in dynamischen Karten – Beispiel Verkehrssimulation

MSc

MSc Theses (University of Zürich)

- Armin Meier, November 2009: Relevanz-Analyse von Geoobjekten
- Jonas Snozzi, 2009: Quantitative Assessment of Context for Mobile Services
- Benedikt Heil, 2009: Design and evaluation of geographic information interfaces
- Stefanie Hautle, 2010: Visualisierung multidimensionaler Daten mit Zeitbezug
- Philippe Jordi, October 2010: Evaluation von Abstraktionsgraden in der Fussgängernavigation
- Thomas Hangartner, 2011: New Methods for the Visualization of and Interaction with Geographic Relevant Point Objects in Mobile Services
- Ortner Felix, November 2011: Dienstbasierte Kartengenerierung für Web-Atlanten unter Anwendung erweiterter OGC-Standards
- Olivieri Marco, February 2012: Visualisierung Geografischer Relevanz auf kleinen Displays: Farbton, Helligkeit und Transparenz

PhD Committees

PhD Theses (University of Zürich)

Supervising & Committee member:

	<p>Paul Crease, March 2014: Representation of geographic relevance in mobile applications</p> <p>Stefano De Sabbata, March 2013: Assessment of geographic relevance for mobile applications</p> <p>Committee member:</p> <p>Marco Salvini, November 2012: Relational Urban Studies. Triangulation of spatialization, social network, and semantic analysis methods</p> <p>Jan Wilkening, February 2012: The Effect of Time Pressure on Map-Based Decision Making</p> <p>Anna-Katharina Lautenschütz, June 2011: Assessing the Relevance of Context for Visualizations of Movement Trajectories</p>
REVIEWING	Programme committees and peer reviewing
PC	AGILE 2008, AGILE 2009, IV2008, LBS Conference 2009, LocWeb 2009, AGILE 2010, AGILE2011, CeMob 2011, Geoinformatik 2011, IV2011, AGILE 2012, Geoinformatik 2012, IV2012, LBS Confer. 2012, AGILE 2013, CUPUM 2013, Geoinformatik 2013; GIScience 2014, MapInteract 2014, ICC 2015, MapInteract 2015, IV2016
Peer reviewing	Program Co-Chair GIScience 2010
	CARTOGRAPHICA, Central Europ. J. of Geosciences, Computers, Environment and Urban Systems, GEOINFORMATICA, Int. J. of Digital Earth, International Journal of Documentation, Int. J. of Geographical Information Science, Journal of the Association for Information Science and Technology, Journal of Location Based Service, Journal of Visual Languages & Computing, Kartographische Nachrichten, The Cartographic Journal, Transactions in GIS
Research proposal review	Research Grants Council (RGC) HongKong
	Sparkling Science research programme, Federal Ministry of Education, Science and Research of Austria
SERVICE	Administrative and management roles
	<ul style="list-style-type: none"> ▶ Representative in various academic committees (IT, Department, Exams) ▶ Administrating library ▶ IT Administration ▶ Organising Science Fairs (e.g. Intergeo 2006 Munich, Faculty Day - 175 Years University of Zurich, etc.) ▶ Leading Bavarian district Deutsche Gesellschaft für Kartographie e.V. (2003 – 2007) ▶ Co-organising & managing GIScience 2010 Conference in Zurich ▶ Organising field trips
PROFESSIONAL AFFILIATIONS	<ul style="list-style-type: none"> ▶ Geographisch-Ethnographische Gesellschaft Zürich ▶ Schweizerische Gesellschaft für Kartographie ▶ International Cartographic Association Commission on Use, User and Usability Issues
PROFESSIONAL QUALIFICATIONS	Languages
	<ul style="list-style-type: none"> ▶ German (mother tongue) ▶ English (business fluency, C2) ▶ French (fluent, B1) ▶ Italian (basic knowledge, A2)

Zürich, August 22, 2019; *Tumasch Reichenbacher*

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Google Scholar: <https://scholar.google.ch/citations?user=R4-W12kAAAAJ&hl=de>
Scopus: <https://www.scopus.com/authid/detail.uri?authorId=15766232300>