

CURRICULUM VITAE

Melanie Natascha Tomintz

CONTACT & PERSONAL INFORMATION

Institution: GeoHealth Laboratory, Dept. of Geography, College of Science,
University of Canterbury.

Address: Private Bag 4800, Christchurch 8140, New Zealand.

Email: melanie.tomintz@canterbury.ac.nz

Tel: +64 3 364 2987 ext. 4048

Nationality: Austria

Language: German (mother tongue), English (excellent), Italian (moderate)

ACADEMIC WORK EXPERIENCE

08/2015 – present Postdoctoral Researcher at the GeoHealth Laboratory,
Department of Geography, University of Canterbury, New
Zealand.

08/2015 – present External Lecturer at the Carinthia University of Applied
Sciences, School of Geoinformation and Environmental
Technologies, Austria.

02/2014 – 08/2015 Senior Researcher and Lecturer at the Carinthia University of
Applied Sciences, School of Geoinformation and Environmental
Technologies, Austria.

02/2009 – 01/2014 Postdoctoral Researcher at the Carinthia University of Applied
Sciences, School of Geoinformation and Environmental
Technologies, Austria.

01/2009 Research Assistant at the National Centre for Geocomputation at
the National University of Ireland, Maynooth, Ireland.

10/2008 – 12/2008 Research Assistant at the University of Leeds, School of
Geography, United Kingdom.

- 10/2005 - 09/2008 Study Assistant at the School of Geography, University of Leeds, United Kingdom.
- 09/2004 – 05/2005 Research Assistant at Centre for Geocomputation, National University of Ireland, Maynooth, Ireland.

QUALIFICATIONS

- 10/2005 – 11/2008 PhD at School of Geography, University of Leeds, UK
 ‘Modelling Locations of Community Based Health Services’ supervised by Prof. Graham Clarke (University of Leeds), Prof. Jo Green (University of York) and Dr. Jan Rigby (University of Sheffield)
- 10/2001 – 07/2005 DI (Diploma Engineer) in the field of Geoinformation at the Carinthia University of Applied Sciences, Austria
 ‘A Spatial and Temporal Comparison of House Price Determinants in England using Geographically Weighted Regression’ supervised by Prof. Stewart Fotheringham (Centre of Geocomputation, National University of Ireland, Maynooth) and Dr. Adrijana Car (former head of the Carinthia University of Applied Sciences, Austria)
- During DI study Exchange study program at the University of Wageningen, NL (one semester, Master courses)
 Internship at the Centre for Geocomputation, National University of Ireland, Maynooth (two semesters)
- 09/1996 – 07/2001 Institute of Higher Education for Economics, Villach, Austria

GRANTS AWARDED

- 10/2005 - 09/2008 PhD scholarship funded by the White Rose Consortium, UK (£ 36,900)
- 09/2004 – 05/2005 Leonardo da Vinci Program (€ 1,500)
- 01/2004 – 07/2004 Exchange program at University of Wageningen, NL (€ 2,000)
- 2005 – 2008 Various small travel and conference bursaries received

RELEVANT PROJECTS AND FUNDING VOLUME

Finished (leader)	SALUD (TRP280-G16), funded by FWF and bmvit (€ 240,000)
In progress (leader)	fREEmoov, funded by the City of Villach (€ 12,000)
In progress (leader)	Obesity, school children and the built environment (non-funded cooperation project with the City of Villach, Department Health)
Finished	Sensors4All, funded by Sparkling Science (€ 190,000)
Finished (co-leader)	Privacy Enhanced Cloud Based Health Tracking, funded by CUAS (€ 50,000)

RESEARCH INTERESTS

Spatial modelling and visualisation; Geoinformation science; Health geography; Spatial analysis of health inequalities; Design and usability evaluation of mobile and Web applications for health care support; Spatial decision support systems

TEACHING EXPERIENCE

Bachelor courses technologies (taught in German)	Selected applications in geoinformation science and Spatial analysis GI applications Introduction to Geoinformation software and practicals Application areas of Geoinformation and system development Internship monitoring
Master courses (taught in English)	Spatial simulation technologies Geoinformation systems Advanced concepts and applications of GIS&T Human machine interfaces Master thesis seminar Project monitoring
Supervision	Supervisor of bachelor theses Supervisor of master theses Supervisor of student groups and interns

CONFERENCE TALKS

- 07/2015 IMGS (International Medical Geography Symposium), Vancouver, CA
- 05/2015 IGU Applied Geography Commission Meeting, Bangkok, TH
- 04/2015 GIS Research UK (GISRUK) 2015, Leeds, UK
- 10/2014 IMA (International Microsimulation Association) Europe, Maastricht, NL
- 09/2014 ARGE Tagung 'Brennpunkt Tabak', Pörschach, AT (German) (invited speaker)
- 07/2014 GI-Forum 2014, Salzburg, AT
- 04/2014 FFH Forschungsforum 2014, Kufstein, AT
- 08/2013 53rd ERSAs (European Regional Science Association), Palermo, IT
- 07/2013 IMGS (International Medical Geography Symposium), Michigan, US
- 05/2013 IGU 2013, Applied GIS and Spatial Modelling Conference, Leeds, UK
- 07/2012 GI-Forum, Salzburg, AT
- 09/2011 17th European Colloquium for Theoretical and Quantitative Methods, Athens, GR (organizer of special session: Quantitative methods in health geography: development and application)
- 07/2011 GI-Forum, Session 'GI and Public Health', Salzburg, AT
- 09/2009 16th European Colloquium for Theoretical and Quantitative Methods, Maynooth, IRE
- 07/2009 AGIT (Symposium for Applied Geoinformatics), Salzburg, AT
- 03/2008 Regional Science Association World Congress, Sao Paulo, Brazil
- 09/2007 European Colloquium for Theoretical and Quantitative Methods, Montreux, CH
- 08/2007 General Conference of the International Microsimulation Association, Vienna, AT
- 07/2007 XIIth International Symposium in Medical Geography, Bonn
- 06/2007 UK National Smoking Cessation Conference, London, UK
- 04/2007 Association of American Geographers, San Francisco, US
- 03/2007 Emerging New Research in Geographies of Health and Impairment, Leeds, UK

11/2006	North American Regional Science Association, Toronto, CA
08/2006	Regional Science Association British and Irish Section, Jersey, UK
06/2006	Geospatial Research and Application Frontiers in Environmental and Public Health Systems, Hong Kong, CN
06/2006	Emerging New Research in Geographies of Health and Impairment, London, UK

OTHER ACTIVITIES

Seminars	Talking at seminars (University, Government, Companies, ...) about Health-GIS
Conferences activities	<ul style="list-style-type: none"> - Organizer of a Special Session called <i>Quantitative Methods in Health Geography: Development and Applications</i> within the European Colloquium of Quantitative and Theoretical Geography 2011 (ecQTG2011) at Athens, Greece - Programme Committee member (12th ENRGHI conference) - Co-organizer of the 12th Emerging New Research on Geographies of Health and Impairment (ENRGHI) conference at the University of Leeds in 2007 - Conference chair at various international conferences
Reviewer	Reviewer of book chapters, journal papers and conference papers
Invited speaker	<ul style="list-style-type: none"> - University of Klagenfurt, AUT, to give a talk about the research area spatial simulation modelling for health care (2014) - Conference "Focus Tabacco" organized by governmental department for Prevention of Addiction in Carinthia (2014)
Project management	Responsible for budget and research staff
Press Release Articles	Kleine Zeitung, die Presse, Reporters, Advantage, ÖKZ, and more.
Working groups	<ul style="list-style-type: none"> - Involved in „Ageing“ to contribute with Geoinformation aspects for the research area „Ageing“ - Medical Geography, German section
Publications	Around 30 publications (see publication list)

PERSONAL INTEREST AND INFORMATION

Sport	Taekwon-Do, Running, Biking, Skiing, Ski touring
Hobbies	Exploring new countries and culture, cooking and baking, reading
Driving licence	Motorbike and Car

LIST OF RELEVANT PUBLICATIONS

1. **Tomintz, M. N.** and Garcia-Barrios, V.M. (2015), *Location analysis of smoking cessation services in Austria*, submitted to the GI-Forum Austria, Special Session 'GI in Public Health', in review.
2. Kosar, B. and **Tomintz, M.N.** (2015), smokeSALUD: Exploring a Spatial Temporal Change of Smokers at Municipality Level in Austria. *International Journal of Microsimulation*, in review.
3. **Tomintz, M. N.** and Garcia-Barrios, V.M. (2015), *SALUD - Towards a Health Decision Support System for Austria*, in Lombard, J., Clarke, G.P. and Stern, E. (eds.): Applied spatial modelling and planning, Routledge, London, forthcoming.
4. Kosar, B. and **Tomintz, M.N.** (submitted), smokeSALUD: Exploring a Spatial Temporal Change of Smokers at Municipality Level in Austria. *International Journal of Microsimulation*, in review.
5. **Tomintz, M.N.**, Clarke, G.P. and Alfadhli, N. (2015), *Location-allocation models*. in: Brunson, C. and Singleton, A. (eds.): Geocomputation: a Practical Primer, Sage, London.
6. Pirker, J., Gütl, C., Weiner P., García-Barrios, V.M. and **Tomintz, M.N.** (2014), *Location-based Mobile Application Creator: Creating Educational Mobile Scavenger Hunts*. Conference paper, IMCL2014 – International Conference on Interactive Mobile Communication Technologies and Learning, Thessaloniki, Greece.
7. Kosar, B., **Tomintz M.N.** (2014), *simSALUD - a Web-based Spatial Microsimulation to Model the Health Status for Small Areas using the Example of Smokers in Austria*. in: GI-Forum 2014, 02-04 Jul 2014, Salzburg, pp. 207-216, Wichmann.
8. Zmölnig, J., **Tomintz, M.N.**, Fotheringham, S.A. (2014), *A spatial analysis of house prices in the Kingdom of Five, Scotland*. in: GI-Forum 2014, 02-04 Jul 2014, Salzburg, pp. 125-134, Wichmann.
9. Kosar, B., **Tomintz M.N.** (2014), *Exploring a Spatial-Temporal Change of Smokers for Municipalities using Spatial Microsimulation Modelling*. in: Forschungsforum der österreichischen Fachhochschulen, 23-24 Apr 2014, Kufstein, pp. 136-138, FH Kufstein Tirol Bildungs GmbH.
10. **Tomintz, M.N.**, and García-Barrios, V.M. (2014), *Location-allocation planning*, in: Cockerham, W.C., Dingwall, R. and Quah, S.R. (eds): The Wiley-Blackwell Encyclopedia of Health, Illness, Behavior and Society, Wiley-Blackwell.
11. **Tomintz, M.N.** Kosar, B. and Garcia-Barrios, V.M. (2013), *simSALUD – a Web-based spatial microsimulation application for creating synthetic microdata for small areas*. Conference paper, 4th General Conference of the International Microsimulation Association, Canberra, Australia.

12. Schabus, S., **Tomintz, M.N.**, Rigby, J.E. (2013), *The influence of distance and neighbourhood surroundings on children`s travel mode to school*, Conference Proceedings at Geoinformatics Forum 2013, Salzburg, Austria.
13. **Tomintz, M.N.** Kosar, B. and Garcia-Barrios, V.M. (2013), *simSALUD – a Web-based Spatial Microsimulation Application to Support Regional Health Planning in Austria*. Conference paper available @ the European Regional Science Association, Palermo, Italy.
14. **Tomintz, M.N.**, Clarke, G.P. (2013), *GIS and spatial microsimulation*, *Geography Compass*, accepted.
15. **Tomintz, M.N.**, Clarke, G.P., Rigby, J.E. and Green, J.M. (2013), *Optimising the location of antenatal classes*, *Midwifery*, 29, 33-43.
16. Fraser, L.K., Edwards, K.L., **Tomintz, M.**, Clarke, G.P. and Hill, A.J. (2012), Food outlet availability, deprivation and obesity in a multi-ethnic sample of pregnant women in Bradford, UK, *Social Science & Medicine*, 75, 1048-1056.
17. **Tomintz, M.N.** and García-Barrios, V.M. (2012), *Privacy matters – health-related location based services*, in: Jekel, T., Car, A., Strobl, J. and Griesebner, G. (eds): *Geovisualization, Society and Learning*, Conference Proceedings, Geoinformatics Forum 2012, Salzburg, Austria, Berlin, Wichmann Verlag, pp. 92-101.
18. Neunegger, B. and **Tomintz, M.N.** (2012), *Overweight children and their school environment – a small-scale spatial approach*, in: Jekel, T., Car, A., Strobl, J. and Griesebner, G. (eds): *Geovisualization, Society and Learning*, Conference Proceedings, Geoinformatics Forum 2012, Salzburg, Austria, Berlin, Wichmann Verlag, pp. 64-73.
19. Hecke, A., Anders, K-H., **Tomintz, M.N.**, Wieser, A., Gruber, G. (2012), *Sensors4All – sensor networks for pupils based on OGC standards*, in: Jekel, T., Car, A., Strobl, J. and Griesebner, G. (eds): *Geovisualization, Society and Learning*, Conference Proceedings, Geoinformatics Forum 2012, Salzburg, Austria, Berlin, Wichmann Verlag, pp. 326-335.
20. García-Barrios, V.M., **Tomintz, M.N.** (2011), *Development of privacy-enhanced LBS solutions and their Applications in WebGIS and Mobile GIS*, 4th International Conference on Interactive Computer-aided Blended Learning (ICBL 2011), Antigua Guatemala, Guatemala.
21. **Tomintz, M.N.**, García-Barrios, V.M. (2011), *Applying privacy-enhancing technologies to health-related location-based services: state-of-the-art*, Conference paper published at the 17th European Colloquium on Quantitative and Theoretical Geography (17th ECQTG), Athens, Greece.
22. **Tomintz, M.N.**, Gruber, G., García-Barrios, V.M. (2011), *How small area estimates can support policy planning: a case study for antenatal classes*, Symposium und Fachmesse für Angewandte Geoinformatik 2011 (AGIT 2011), Salzburg, Austria, International Geoinformatics Forum 2011, Salzburg, Austria, 321-330.

23. García-Barrios, V.M., **Tomintz, M.N.** (2011), *Integrating Digital Maps in Education: A Case Study*, in: Jekel, T., Koller, A., Donert, K. and Vogler, R. (eds): Learning with GI 2011, Implementing Digital Earth in Education, International Geoinformatics Forum 2011, Salzburg, Austria, Berlin, Wichmann Verlag, 48-57.
24. **Tomintz, M.N.**, Clarke, G.P. and Rigby, J.E. (2009), *Planning the location of stop smoking services at the local level: a geographic analysis*, *Journal of Smoking Cessation*, 4(2), 61-73.
25. **Tomintz, M.N.** (2009), *Modelling best locations for stop smoking services at the small area level in Leeds, UK*, in: Strobl, J., Blaschke, T. and Griesebner, G. (eds.): Angewandte Geoinformatik 2009, Tagungsband zum AGIT-Symposium Salzburg, Heidelberg, Wichmann Verlag.
26. **Tomintz, M.N.**, Clarke, G.P. and Rigby, J.E. (2008), *The geography of smoking in Leeds: estimating individual smoking rates and the implications for the location of stop smoking services*, *AREA*, 40(3), 341-353.
27. **Tomintz, M.N.**, Clarke, G.P. and Rigby, J.E. (2008), *Modelling the best locations for smoking cessation services at the regional or small area level*, Conference paper submitted to the Regional Science Association World Congress, São Paulo.
28. **Tomintz, M.N.** (2008), *Modelling locations of community health services*, Unpublished PhD thesis, University of Leeds.
29. **Tomintz, M.N.**, Clarke, G.P. and Rigby, J.E. (2007), *A microsimulation model to find optimal locations for smoking cessation services*, Conference paper submitted to the 1st General Conference of the International Microsimulation Association, Vienna.
30. **Tomintz, M.N.**, Clarke, G.P. and Rigby, J.E. (2007), *The geography of smoking and stop-smoking services: a microsimulation approach to locating smoking cessation services in an optimal way to reduce health inequalities for different population groups*, Conference Paper submitted to the 14th European Colloquium on Theoretical and Quantitative Geography, Montreux.
31. **Tomintz, M.N.**, Clarke, G.P. and Rigby, J.E. (2006), *Using location-allocation models to find optimal locations for smoking cessation services in Leeds*, Conference paper submitted to the 53rd Annual North American Regional Science Association International Conference, Toronto.
32. **Tomintz, M.N.** (2005), *A Spatial and Temporal Comparison of House Price Determinants in England using Geographically Weighted Regression*, Unpublished Diploma thesis.