

# Curriculum Vitae, Robert Steiger

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## Personal Data

Date of Birth: 29.09.1975  
Place of Birth: Fürstfeldbruck, Germany  
Nationality: German  
Marital Status: married, 2 children

## Education

10/1997 – 07/1998 Study of Geography, TU Munich (Human Geography), Germany.  
10/1998 – 09/2004 Study of Geography University of Innsbruck, Austria.  
09/2007 – 04/2011 PhD candidate, Institute of Geography University of Innsbruck, Austria.

## Scientific Career

11/2004 – 09/2007 Research Assistant in the Interreg IIIa project „Tirol Atlas“, Institute of Geography University of Innsbruck, Austria.  
09/2007 – 12/2010 Research Assistant in the FWF project „Sustainability of Ski Tourism in Tyrol and South Tyrol“; Institute of Geography University of Innsbruck, Austria.  
01/2010 – 04/2010 Contracts of work in the EU project „ClimAlpTour - Climate Change and its impact on tourism in the Alpine Space“ (Institute of Service Management, Innsbruck and Dipartimento di Economia, Venezia).  
01/2011 – 06/2011 Contract of work on behalf of the EURAC in the EU-Project „CLISP - Climate Change Adaptation by Spatial Planning in the Alpine Space“  
01/2011 – 06/2012 Senior Scientist (part-time) in the ACRP Project „CC-Snow – Effects of Climate Change on Future Snow Conditions in Tyrol and Styria“, Department of Geography and Regional Science, University of Graz.  
01/2011 – 09/2012 Senior Scientist (part-time) and Head of the Tourism Research Group at the alpS – Centre for Climate Change Adaptation Technologies, Innsbruck, Austria.  
10/2012 – 07/2015 Research Assistant at MCI Management Center Innsbruck - Tourism Business Studies, Innsbruck, Austria  
08/2015 Post-doc Researcher at the Institute of Geography, University of Innsbruck, Austria.  
Since 09/2015 Assistant Professor in the Department of Public Finance, University of Innsbruck, Austria

## Selected Research Projects

- 10/2011 – 12/2014 Coordinating Lead Author of the Austrian Panel on Climate Change (APCC)
- 05/2012 – 03/2014 Contributing Author to the CH2014 Impacts Report (Switzerland)
- 10/2012 – 08/2013 Climate Change in Grisons – Risks and Chances for Tourism Funded by the Canton of Grisons and the Cable-car Association of Grisons
- 03/2013 – 07/2015 Benchmarking the Alps – Funded by TWF
- 05/2013 – 04/2014 KlimTourV – The impacts of climate change in Vorarlberg - COMET funded project in collaboration with alpS Centre for Climate Change
- 06/2013 – 11/2014 Added value through congress tourism in Tyrol – Funded by Tirol Werbung
- 10/2013 – 12/2015 SSHRC - Insight Development Grant (Canada) „An integrated modeling approach to assessing regional ski tourism vulnerability to climate change” (project collaborator; principal investigator: Dr. Daniel Scott, Geography and Environmental Management, University of Waterloo.
- 05/2015 – 03/2017 „ClimTourFIT-Niederösterreich” (Funded by alpS-COMET, FFG)
- 08/2015 – 10/2017 “Climate Change Impacts on Skier Behaviour and Spatial Distribution of Skiers in Austria” (Project lead) (funded by KPC)
- 08/2015 – 04/2016 “Climate Change and ski tourism in the Eastern Alps” (Project lead) (funded by Kässbohrer AG)
- 07/2017 – 11/2018 „Preference of tourists for complex offers in winter tourism“.(Project lead) (Funded by: Tourismusforschungszentrum (TFZ), Province of Tyrol)
- 04/2017 – 03/2020 „tourRes. Resilience of tourism systems to natural hazards in the Himalayas”. (Project lead) (funded by Austrian Academy of Science (ÖAW), Earth System Sciences (ESS))
- 03/2018 – 10/2018 Climate change and ski tourism in the Canton of Glarus (funded by the Canton of Glarus, Switzerland)
- 05/2018 – 01/2019 Climate change and ski tourism in the Canton of Fribourg (funded by the Canton of Fribourg, Switzerland)
- 07/2018 – 07/2020 ACRP Special Report on Climate Change and Tourism (funded by KPC)

## Main research interests

Tourism Geography  
Climate Change & Adaptation  
Risk research of man-environment systems  
Sustainable tourism development  
Regional development  
Snow modelling  
Alps

## **Reviewer for Scientific Journals and National Funding Organisations**

Annals of Tourism Research  
Atmosphere  
Climatic Change  
Climate Research  
Climate Services  
Cold Regions Science and Technology  
Current Issues in Tourism  
Ecological Economics  
Eco.mont  
Environmental Management  
International Journal of Climatology  
International Journal of Culture, Tourism, and Hospitality Research  
International Journal of Geographical Information Science  
Journal of Outdoor Recreation and Tourism  
Journal of Sustainable Tourism  
Journal of Transport Geography  
Mountain Research and Development  
Natural Hazards  
Nature Climate Change  
ÖAW (Projektgutachter)  
Regional Environmental Change  
Revue de Géographie Alpine  
Scandinavian Journal of Hospitality and Tourism  
SNF (Projektgutachter Schweizer Nationalfond)  
Sustainability  
Theoretical and Applied Climatology  
Tourism Geographies  
Weather, Climate, and Society

## **Supervision since 2016**

- Impacts of climate change on snowmaking in Val Gardena (Bachelor Geography)
- Effects of the brand “Bergsteigerdörfer” on tourism (Bachelor Tourism)
- Effects of interconnections of ski areas (Bachelor Tourism)
- Destination umbrella brands in climbing tourism (Bachelor Tourism)
- Economic effects of protected areas (Bachelor Tourism)
- Tourism and Terrorism (Bachelor Tourism)
- Acceptance of regulations for whale watching (Bachelor Tourism)
- Perception and travel behaviour of tourists in the context of extreme weather events (Master Geography)
- Social Web – Companion of modern city tourists? (Master Geography)
- Climatic conditions for winter tourism in northern Finland (Master Geography)
- Spatiotemporal distribution of tourism flows across the municipalities of the Austrian Alps (Master Geography)
- Valorisation of nature capital in a national park (Master Geography)
- Impacts and Potentials of Ecotourism and Community-based Tourism for Conservation and Development (Master Geography)
- On the Road to Development: The Impacts of Road Construction on Livelihoods in Manang/Nepal
- 8 current Bachelor, 3 Master and 1 PhD candidate

## Awards

04/2011 ICOT (International Conference on Tourism) Best student paper award  
03/2013 Alpine Convention, Young Scientists Award

## Foreign languages (CEF level)

	Understanding	Speaking	Writing
English	C2	C1	C2
Italian	B1	B1	B1
French	B1	A1	A2

## List of Publications

### Journals:

- Pons, M., Steiger, R., Scott, D., Johnson, P., Ruty, M., Vilella, M. (2019). Using an Agent Based Model to Assess Ski Tourism Resilience to Climate Variability. *Journal of Travel Research* (submitted).
- Scott, D., Steiger, R., Fang, Y. (2019a). Regional Ski Tourism Market Vulnerability to Climate Change: An Inter-comparison of Ontario (Canada), Quebec (Canada), and the Northeast USA. *Regional Environmental Change* (submitted).
- Scott, D., Steiger, R., Aall, C., Dannevig, H. (2019b). The impacts of climate change of alpine and Nordic skiing in Norway. *Scandinavian Journal of Hospitality and Tourism* (submitted)
- Fang, Y., Scott, D., Steiger, R. (2019). Ski tourism in China: historical development and future impact of climate change and challenges in an era of climate change. *Current Issues in Tourism* (submitted).
- Falk, M., & Steiger, R. (2018). An Exploration of the Debt Ratio of Ski Lift Operators. *Sustainability*, 10(9). <https://doi.org/10.3390/su10092985>
- Scott, D., Steiger, R., Ruty, M., Fang, Y. (2018). The changing geography of the Winter Olympic and Paralympic Games in a warmer world. *Current Issues in Tourism*, doi: 10.1080/13683500.2018.1436161
- Steiger, R., Scott, D., Abegg, B., Pons, M., Aall, C. (2017). A critical review of climate change risk for ski tourism. *Current Issues in Tourism*, doi: 10.1080/13683500.2017.1410110
- Scott, D., Steiger, R., Ruty, M., Pons, M., & Johnson, P. (2017). The differential futures of ski tourism in Ontario (Canada) under climate change: The limits of snowmaking adaptation. *Current Issues in Tourism*, 1–16. doi:10.1080/13683500.2017.1401984
- Steiger, R., Scott, D., Ruty, M. (2017). Die Zukunft olympischer Winterspiele in einem wärmeren Klima. *Tourismus Wissen – quarterly*, April 2017, 102-109.
- Johnson, P., Nicholls, S., Student, J., Amelung, B., Baggio, R., Balbi, S., Boavida-Portugal, I., de Jong, E., Hofstede, G.J., Lamers, M., Pons, M., Steiger, R. (2017). Easing the adoption of agent-based modelling (ABM) in tourism research. *Current Issues in Tourism* 20 (8), 801–808. doi: 10.1080/13683500.2016.1209165
- Ruty, M., Scott, D., Johnson, P., Pons, M., Steiger, R., & Vilella, M. (2017). Using ski industry response to climatic variability to assess climate change risk: An analogue study in Eastern Canada. *Tourism Management*, 58, 196–204.
- Amelung, B., Student, J., Nicholls, S., Lamers, M. Baggio, R., Boavida-Portugal, I., Johnson, P. de Jong, E., Hofstede, G.J., Pons, M., Steiger, R., Balbi, S. (2016). The value of agent-based modelling for assessing tourism–environment interactions in the Anthropocene. *Current Opinion in Environmental Sustainability* 2016, 23, 46–53
- Abegg, B., & Steiger, R. (2016). Herausforderung Klimawandel: Alpiner Skitourismus unter Anpassungsdruck. *Geographische Rundschau*, Mai 5, 16–21.
- Gössling, S., Abegg, B., & Steiger, R. (2016). “It Was Raining All the Time!”: Ex Post Tourist Weather Perceptions. *Atmosphere*, 7(1). doi:10.3390/atmos7010010
- Steiger, R., Abegg, B., & Jänicke, L. (2016). Rain, Rain, Go Away, Come Again Another Day. Weather Preferences of Summer Tourists in Mountain Environments. *Atmosphere*, 7(5). doi: 10.3390/atmos7050063

- Hall, C. M., Amelung, B., Cohen, S., Eijgelaar, E., Gössling, S., Higham, J., ..., Steiger, R. et al. (2015). No time for smokescreen skepticism: A rejoinder to Shani and Arad. *Tourism Management*, 47, p. 341–347. doi:10.1016/j.tourman.2014.08.008
- Hall, C. M., Amelung, B., Cohen, S., Eijgelaar, E., Gössling, S., Higham, J. ..., Steiger, R. et al. (2015): Denying bogus skepticism in climate change and tourism research. *Tourism Management* 47, p. 352–356. doi: 10.1016/j.tourman.2014.08.009.
- Rutty, M., Scott, D., Johnson, P., Jover, E., Pons, M., & Steiger, R. (2015). Behavioural adaptation of skiers to climatic variability and change in Ontario, Canada. *Journal of Outdoor Recreation and Tourism*, 11, 13–21.
- Rutty, M., Scott, D., Johnson, P., Jover, E., Pons, M., & Steiger, R. (2015). The geography of skier adaptation to adverse conditions in the Ontario ski market. *The Canadian Geographer / Le Géographe Canadien*, 59(4), 391–403.
- Scott, D., Rutty, M., Steiger, R. (2015): Future of the Olympic Winter Games. *Journal of Olympic History* 23 (1), p. 52-61.
- Steiger, R., Scott, D., Rutty, M. (2015): Die Zukunft der olympischen Winterspiele in einem wärmeren Klima. *FdSnow* 46, 38-46.
- Rutty, M., Scott, D., Steiger, R., Johnson, P. (2014): Weather Risk Management at the Olympic Winter Games. *Current Issues in Tourism*. doi:10.1080/13683500.2014.887665
- Scott, D., Steiger, R., Rutty, M., Johnson, P. (2014): The Future of the Olympic Winter Games in an Era of Climate Change. *Current Issues in Tourism*. doi:10.1080/13683500.2014.887664
- Strasser, U., Viltsmaier, U., Pretenthaler, F., Marke, T., Steiger, R., Damm, A. Hanzer, F., Wilcke, R.A.I., Stötter, J. (2014): Coupled component modelling for inter- and transdisciplinary climate change impact research: dimensions of integration and examples of interface design. *Environmental Modelling & Software* 60, p. 180-187. doi: 10.1016/j.envsoft.2014.06.014
- Steiger, R., Abegg, B. (2013): The Sensitivity of Austrian Ski Areas to Climate Change. *Tourism Planning & Development* 10(4), p. 480-493. doi:10.1080/21568316.2013.804431.
- Steiger, R., Stötter, J. (2013): Climate Change Impact Assessment of Ski Tourism in Tyrol. *Tourism Geographies* 15(4), p. 577-600. doi: 10.1080/14616688.2012.762539
- Steiger, R. (2012): Scenarios for skiing tourism in Austria: integrating demographics with an analysis of climate change, *Journal of Sustainable Tourism*, 20(6), p. 867–882; doi:10.1080/09669582.2012.680464
- Schmidt, P., Steiger, R., Matzarakis, A. (2012): Artificial snowmaking possibilities and climate change based on regional climate modeling in the Southern Black Forest. *Meteorologische Zeitschrift* 21(2), p. 167–172.; doi:10.1127/0941-2948/2012/0281
- Trawöger, L., Steiger, R. (2012): Klimawandelanpassung im Skitourismus: Schnee von gestern? *Ökologisches Wirtschaften* 3, S. 27-29.
- Steiger, R., Trawöger, L. (2011): Klimawandel und Wintertourismus – Ein Vulnerabilitätsprofil für die Region Tirol. *Zeitschrift für Tourismuswissenschaft* 3(2), S.151-164.
- Steiger, R. (2011): The impact of snow scarcity on ski tourism. An analysis of the record warm season 2006/07 in Tyrol (Austria). *Tourism Review*, 66(3), p. 4-13.

- Strobl, A., Steiger, R., Peters, M., Weiermair, K. (2011): Tourismusforschung und –praxis: Wen kümmert der Klimawandel? In Bieger, Th., Laesser, Ch., Beritelli, P. (eds.), Wettbewerb im alpinen Tourismus – Herausforderungen und Innovationen, *Schweizer Jahrbuch für Tourismus 2010*, Erich Schmidt: Berlin, S. 105-114.
- Steiger, R. (2010): The impact of climate change on ski season length and snowmaking requirements in Tyrol, Austria. *Climate Research*, 43(3), p. 251-262.
- Steiger, R. (2010): Klimawandel und Wintertourismus. *GW-Unterricht*, 117, S. 2-10.
- Steiger, R., Mayer, M. (2008): Snowmaking and Climate Change. Future Options for Snow Production in Tyrolean Ski Resorts. *Mountain Research and Development*, 28(3/4), p. 292-298. doi:10.1659/mrd.0978
- Mayer, M., Steiger, R., Trawöger, L. (2007): Technischer Schnee rieselt vom touristischen Machbarkeitshimmel-Schneesicherheit und technische Beschneigung in westösterreichischen Ski-destinationen vor dem Hintergrund klimatischer Wandlungsprozesse. *Mitteilungen der Österreichischen Geographischen Gesellschaft*, 149, Wien 2007, S. 157-180.

### **Book chapters / Books**

- Kreß, F., Angermann, J., Bauer, A., Baumgartl, S., Steiger, R., Abegg, B. (2018). „Keep Up The Good Work“? – Eine kritische Anwendung der Importance-Performance-Analyse zur Steigerung der touristischen Wettbewerbsfähigkeit am Beispiel der Lenzerheide. *Schweizer Jahrbuch für Tourismus 2017/2018*. (in press)
- Posch, E.; Steiger, R. (2018): Größe ist Trumpf? - Destinationsentscheidungen von Wintersportgästen in Österreich. In: Mosedale, J.; Voll, F.: Nachhaltigkeit und Tourismus: 25 Jahre nach Rio – und jetzt? Studien zur Freizeit- und Tourismusforschung, Band 14. Mannheim: MetaGIS.
- Steiger, R., & Abegg, B. (2018). Ski areas' competitiveness in the light of climate change: comparative analysis in the Eastern Alps. In D. Müller & M. Więckowski (Eds.), *Tourism in Transition, Recovering from Decline and Managing Change*. Springer.
- Abegg, B., & Steiger, R. (2017). Resilience and Perceptions of Problems in Alpine Regions. In R.W. Butler (Ed.), *Tourism and Resilience* (pp. 105–117). Wallingford: CABI Publications.
- Abegg, B., & Steiger, R. (2017). Die Zukunft des Wintertourismus in Österreich gestalten. In *Innsbrucker Jahresbericht 2016-2017*. Innsbruck: Institut für Geographie. S.211-222.
- Steiger, R. & Abegg, B. (2017). Klimawandel und Skigebiete im Ostalpenraum. In Roth, R., Schwark, J., *Wirtschaftsfaktor Sporttourismus*. Schriften zu Tourismus und Freizeit Band 19. Berlin: ESV. S. 137-148.
- Abegg, B. & Steiger, R. (2016). Klimawandel und Wintertourismus: Zwei benachbarte Skigebiete im Vergleich. In: *Innsbrucker Geographische Studien (IGS) Band 40*, Innsbrucker Studienkreis für Geographie, Innsbruck, S. 391-400.
- Steiger, R. (2016). Naturtourismus und Klimawandel. In: Mayer, M., Job, H. (Hrsg.), *Naturtourismus – Chancen und Herausforderungen*. Studien zur Freizeit- und Tourismusforschung, Band 12. Mannheim: MetaGIS.

- Steiger, R., & Abegg, B. (2015). Klimawandel und Konkurrenzfähigkeit der Skigebiete in den Ostalpen. In: R. Egger & K. Luger (Eds.), *Tourismus und mobile Freizeit – Lebensformen, Trends, Herausforderungen*. Books on Demand, S. 319–332.
- König, M., Loibl, W., Steiger, R., Aspöck, H., Bednar-Friedl, B., Brunner, K.-M., Haas, W.; Höferl, K.-M.; Huttenlau, M.; Walochnik, J.; Weisz, U. (2014). Kapitel 6: Der Einfluss des Klimawandels auf die Anthroposphäre. In: APCC (Hrsg.), *Österreichischer Sachstandsbericht Klimawandel 2014 (AAR14)*. Austrian Panel on Climate Change (APCC), Wien: Verlag der Österreichischen Akademie der Wissenschaften, S. 641–704
- Moshhammer, H., Prettenthaler, F., Damm, A., Hutter, H.-P., Jiricka, A., Köberl, J., Neger, C.; Pröbstl-Haider, U.; Radlherr, M.; Renoldner, K.; Steiger, R.; Wallner, P.; Winkler, C. (2014). Kapitel 4: Gesundheit, Tourismus. In APCC (Hrsg.), *Österreichischer Sachstandsbericht Klimawandel 2014 (AAR14)*. Austrian Panel on Climate Change (APCC). Wien: Verlag der Österreichischen Akademie der Wissenschaften, S. 933–978
- Marty, C. (2014) (lead author): Cryospheric aspects of climate change – impacts on snow, ice, and ski tourism. In: CH2014-Impacts: Toward Quantitative Scenarios of Climate Change Impacts in Switzerland. OCCR, FOEN, MeteoSwiss, C2SM, Agroscope, and ProClim, Bern, Switzerland, p. 49-56 (contributing Author).
- Mayer, M.; Steiger, R. (2013): Skitourismus in den Bayerischen Alpen - Entwicklung und Zukunftsperspektiven. In: Job, H., Mayer, M. (Hrsg.): *Tourismus und Regionalentwicklung in Bayern*. Arbeitsberichte der ARL 9. Verlag der ARL, Hannover, S. 164-212.
- Scott, D., Steiger, R. (2013): Vulnerability of the Ski Industry. In: Pielke, R. (Hrsg.): *Climate Vulnerability: Understanding and Addressing Threats to Essential Resources*. Elsevier Inc., Academic Press, p. 305-313.
- Steiger, R., Dawson, J., Stötter, J. (2012): Last chance tourism in alpine regions. Last chance to ski? In: Lemelin, R. H., Dawson, J., Stewart, E. J.: *Last Chance Tourism. Adapting tourism opportunities in a changing world*. Routledge, New York, p. 42-54.
- Trawöger L., & Steiger, R. (2012): Klimawandel und Skitourismus - Objektive und subjektive Risikoeinschätzung in Tirol. In: Zehrer, A. & Grabmüller A. (Hrsg.), *Tourismus 2020+ interdisziplinär*. Berlin: ESV Verlag, S. 257-267.
- Strasser, U.; Gobiet, A.; Stötter, J.; Kleindienst, H.; Steininger, K.; Prettenthaler, F.; Damm, A.; Hanzer, F.; Köberl, J.; Lang, T.; Leuprecht, A.; Marke, T.; Osebik, D.; Ragg, H.; Steiger, R.; Töglhofer, C.; Wilcke, R. (2011): CC-Snow: Ein inter- und transdisziplinäres Projekt zur Entwicklung von Adaptionsstrategien zu den Auswirkungen des Klimawandels auf den Skitourismus in Tirol und in der Steiermark. In: Janschitz, S.; Lieb, G. K.: *Nachhaltigkeit - Regionalentwicklung - Tourismus. Grazer Schriften der Geographie und Raumforschung. Band 46*, S. 333-346.
- Steiger, R. (2011): *Climate Change Impact on Skiing Tourism in Tyrol (Austria, Italy)*. Unveröffentlichte Doktorarbeit. Institute of Geography, University of Innsbruck, April 2011.
- Steiger, R. (2011): The impact of climate change on ski touristic demand using an analogue approach. In: Klaus Weiermair, Harald Pechlaner, Andreas Strobl, Marianna Elmi (Eds): *Coping with Global Climate Change. Strategies, Policies and Measures for the Tourism Industry*. Innsbruck University Press, Innsbruck, p. 247-256.
- Steiger, R. (2007): *Der Klimawandel und seine Auswirkung auf die Skigebiete im bayrischen Alpenraum*. Salzwasser Verlag, Bremen, 132 S. (ISBN: 978-3-86741-049-6)