

Curriculum Vitae

PERSONAL INFORMATION

Full Name: Nicolas Gerber
 Date, Place of Birth: 15 May 1972, Lausanne, Switzerland
 Nationality: Swiss
 Civil status: Married, two children
 Work address: Genscherallee 3, 53113 Bonn, Germany
 ORCID: 0000-0002-2096-6692

EDUCATION

01/2000 - 07/2006 **PhD in Economics**
 University of New South Wales, Sydney, Australia
 Thesis: Biodiversity measurements, species interactions and sustainability

10/1997 - 09/1998 **M.Sc. in Environmental & Resource Economics**
 University College London, England
 Thesis: Willingness-to-pay for car fuel efficiency – the UK market from 1992-1997

10/1992 - 07/1997 **Licence en Sciences Economiques (eq. BSc. + MSc. in Economics)**
 Ecole des HEC, Université de Lausanne, Switzerland

WORK EXPERIENCE

04/2007 – 07/2021 **Senior Researcher**
Center for Development Research (ZEF), University of Bonn, Germany
Department of Economic and Technological Change

Research on:

- African urban food systems: determinants of and partnerships for improved nutrition
- Socio-economic and health impacts of global bioeconomy value chains in South America
- Agricultural innovation and sustainable intensification in Africa: drivers and food and nutrition security impacts at household and national levels
- The nexus of agriculture and water, sanitation and hygiene (WASH): behavioral change, health and nutrition impacts (Africa and South Asia)
- Food and nutrition security: determinants, indicators and country typologies
- Land degradation, desertification and drought: costs of action versus inaction

Project management, including:

- Staff management and recruitment – over 30 colleagues since 2010
- Budgeting, financial management and reporting - EUR 6.4 millions since 2010
- Principal investigator, team leader and liaisons in international research teams and partnerships - experience with over 50 international project partners
- Progress reports to donors - experience with 6 national and international donors
- Outreach to stakeholders – including in transdisciplinary research settings
- Contracting of consultants and sub-contractors

Co-authoring of research proposals and grant applications, including:

- Exploring the future of global food and nutrition security – successful (EUR 10.35 millions)
- The economics of land degradation – successful (EUR 1.19 millions)
- Partnerships for Healthy Diets and Nutrition in Urban African Food Systems: evidence and strategies – successful (EUR 827'964)
- The economics of land degradation, desertification and drought – successful (EUR 200'000)
- Research cooperation with WeltHungerHilfe under the EU project ProAct "Fostering Smallholder Agriculture in Sierra Leone" – successful (EUR 75'000)

Organisation of international conferences and symposia:

- STRIVE project's presentation and booth, COP 23, UN Climate Change Conference, Bonn, November 24, 2017
- FOODSECURE final conference "Policies that matter" – A science-policy event on Europe's role in eliminating global hunger and malnutrition. Pre-event to the Food 2030 Conference "Research and Innovation for Tomorrow's Nutrition and Food System", Brussels, October 12-13, 2016
- The future of African food and nutrition security, Organized Symposium at the African Association of Agricultural Economists Conference 2016, Addis Ababa, 23-26 September 2016
- Agricultural and rural innovation for food and health, Organized Symposium at the International Conference of Agricultural Economists, Milan, August 8-14, 2015
- Food and nutrition security: how research informs policy, Session at the EuroScience Open Forum, Copenhagen, 21-26 June 2014
- Soil, land and food security – the challenges for science, economics and policy, Session at the EuroScience Open Forum, Dublin, 11-15 June, 2012
- Annual International Conference 2012, German Economic Association meeting of the Research Committee on Development Economics

Mentoring of doctoral candidates:

- Academic advisor for 12 candidates (10 completed, 2 in progress)

Teaching:

- Advanced Environmental Economics, Master Programme on Agricultural and Food Economics (Agricultural Faculty, University of Bonn, since Summer Semester 2018)
- Applied microeconomics, Bachelor Programme (Agricultural Faculty, University of Bonn, since Winter Semester 2018)
- Interdisciplinary courses on Development Policy and Methods of Policy Analysis (Agricultural Faculty, University of Bonn, Winter Semesters 2008-2012), Renewable Energy in Developing Countries (ZEF doctoral program, 2008-2010), and Research Proposal Writing seminars (ZEF doctoral program, 2011)

Founding and active member of the ZEF Research Ethics Committee:

- Development of the ZEF Research Ethics Policy, development of the ZEF ethical clearance process, evaluation of applications

09/2005 - 07/2006

Research Officer**Environment and Conservation Economics Section, Policy and Science Division, NSW Department of Environment and Conservation, Australia**

Reports on regional socio-economic impacts and total economic valuation of marine park projects

07/2001 - 07/2006

Associate Lecturer**School of Economics, University of New South Wales, Australia**

Lecturer, tutor and tutorial administrator in quantitative methods, microeconomics and business economics (bachelor and master courses)

CONSULTANCIES

2018-19

The United Nations Convention to Combat Desertification

The Land-Drought Nexus: Enhancing the role of land-based interventions in drought mitigation and risk management

2016

The Global Water Partnership Organization / WMO

The benefits of action / costs of inaction for drought preparedness

2008

German Technical Assistance (formerly GTZ, now GIZ)

The impacts of biofuel production on food prices – a meta-analysis report

2002

TRAFFIC Oceania/WWF South Pacific, Australia

Economic analysis of the Eaglewood trade in Papua New Guinea, with field mission

LANGUAGES

French	Native speaker
English	Fluent (oral and written)
German	Good working knowledge (oral and written)

AFFILIATIONS, MEMBERSHIPS AND COMMITTEES

- Associate Editor (Food Security, www.springer.com/journal/12571), Reviewer (World Development; Global Food Security; Global Challenges; Journal of Water, Sanitation & Hygiene for Development)
- European Economic Association (member)
- European Association of Environmental and Resource Economists (member)
- International Association of Agricultural Economists (member)

SELECTED PROJECTS

- 09/2018 - **NOURICITY - "Partnerships for healthy diets and nutrition in urban African food systems – evidence and strategies"**
- Funded by the German Federal Ministry for Education and Research (BMBF), under the LEAP-AGRI Era-Net CO-fund, EC H2020
 - Own budget: EUR 290'000 ; Project duration: 36 months
 - Staff: 2 ; International partners: 3
 - Research countries: Ghana, South Africa and Uganda
 - Role: Principal investigator and project lead
- 09/2017 - 2021 **STRIVE - "Sustainable TRade and InnoVation transfer in the bioEconomy: From National Strategies to Global Sustainable Development Goals"**
- Funded by the German Federal Ministry for Education and Research (BMBF)
 - Budget: EUR 2.46 millions ; Project duration: 60 months
 - Staff: 8 ; International partners: 2
 - Research countries: South Africa, Tailand, Brazil and global
 - Role: researcher (bioeconomy value chains and health) and project coordinator
- 02/2012 - 02/2017 **FOODSECURE - "Exploring the future of global food and nutrition security"**
- Funded by the European Commission FP7 program
 - Own budget: EUR 1.48 millions ; Project duration: 60 months
 - Staff: 7 ; International partners: 17
 - Research countries: Ethiopia, India, and global
 - Role: lead researcher on the impacts and determinants of innovations for food and nutrition security; leader of several multi-partner work packages and manager of the ZEF team; co-leader for the dissemination activities of the project consortium
- 05/2015 - 03/2016 **WATSAN-AGRICULTURE - "Guiding pro-poor investments in the nexus among domestic water quality and quantity, sanitation and hygiene, and agriculture from the bottom-up"**
- Funded by the Bill and Melinda Gates Foundation
 - Total budget: USD 1.04 millions ; Project duration: 48 months
 - Staff: 7 ; International partners: 4
 - Research countries: Ethiopia, Ghana, Bangladesh, India
 - Role: project manager, co-author of research reports and publications
- 04/2010 - 12/2011 **ELD - "The economics of desertification, land degradation and drought: Towards an integrated global assessment"**
- Funded by the German Federal Ministry for Economic Cooperation and Development (BMZ) through the International Food Policy Research Institute (Washington, D.C.)
 - Own budget: EUR 100'000 ; Project duration: 21 months
 - Staff: 6 ; International partners: 1
 - Research countries: global
 - Role: second lead author, project manager of the ZEF team, liaison with IFPRI

SELECTED PUBLICATIONS

Natural Resource Economics

Reichhuber, A., **Gerber, N.**, Mirzabaev, A., Svoboda, M., Lopez Santos, A., Graw, V., Stefanski, R., Davies, J., Vuković, A., Fernandez Garcia, M.A., Fiati, C. and X. Jia. (2019). The Land-Drought Nexus: Enhancing the Role of Land-Based Interventions in Drought Mitigation and Risk Management. A Report of the Science-Policy Interface. United Nations Convention to Combat Desertification (UNCCD), Bonn, Germany.

Gerber, N. and Mirzabaev, A. (2018). Benefits of action and costs of inaction: Drought mitigation and preparedness – a literature review, in "*Drought and Water Crisis – Integrating Science, Management, and Policy (2nd edition)*", Donald A. Wilhite and Roger S. Pulwarty (Eds), CRC Press, Boca Raton.

Gerber, N. and Bhaduri, A. (2017). Producers' well-being and natural resource extraction - the Eaglewood trade in Papua New Guinea. *Agricultural and Resource Economics Review* 46(1): 21-43. DOI: 10.1017/age.2016.33

Gerber, N., Nkonya, E. and von Braun, J. (2013). Land Degradation, Poverty and Marginality, in "Marginality – Addressing the Nexus of Poverty, Exclusion and Ecology", edited by Joachim von Braun and Franz Gatzweiler, Springer.

von Braun, J. and **Gerber, N.** (2012). The economics of land and soil degradation: toward an assessment of the costs of inaction, in "Recarbonization of the Biosphere: Ecosystems and the Global Carbon Cycle", edited by Rattan Lal et al., Springer, Heidelberg.

Nkonya, E., **Gerber, N.**, Baumgartner, P., von Braun, J., De Pinto, A., Graw, V., Kato, E., Kloos, J. and Walter, T. (2011). The Economics of Land Degradation: Toward an integrated global assessment. Development and Economic Policy Series, No 66, Heidhues, F., J. von Braun and M. Zeller (Eds), Peter Land GmbH.

Gerber, N. (2011). Biodiversity measures based on species-level dissimilarities: a methodology for assessment. *Ecological Economics* 70: 2275-2281. DOI: 10.1016/j.ecolecon.2011.08.013

Food and Nutrition Security

Bonuedi, I., **Gerber, N.** and Kornher, L. (2021). Intervening in Cash Crop Value Chains for Improved Nutrition: evidence from Rural Sierra Leone. *The Journal of Development Studies*. DOI: 10.1080/00220388.2021.1945043

Mikémina, P., **Gerber, N.** and T. Wünscher, T., (2020). Impacts of Adaptation to Climate Change on farmers' income in the Savana Region of Togo, *Revue Economique*, 2020/7 : 1042-1064.

Narayanan, S., Naraparaju, K. and **Gerber, N.** (2019). Synergies in Social Protection: Impacts of India's MGNREGA and Public Distribution System on the health and nutrition of Women and Children. DOI: 10.2139/ssrn.3513358 .

Mekonnen, D.A., **Gerber, N.** and Matz, J.A. (2018). Gendered social networks, agricultural innovations and farm productivity in Ethiopia. *World Development* 105: 321-335. DOI: 10.1016/j.worlddev.2017.04.020

Narayanan, S. and **Gerber, N.** (2017). Social Safety Nets for Food and Nutrition Security in India, *Global Food Security* 15: 65-76. DOI: 10.1016/j.gfs.2017.05.001

Mekonnen, D.A., **Gerber, N.** (2017). Aspirations and food security in rural Ethiopia. *Food Security* 9(2): 371-385. DOI: 10.1007/s12571-017-0654-6

Narayanan, S., **Gerber, N.** Rathore U. and Naraparaju, K., (2017). Can social safety nets protect public health? The effect of India's workfare and foodgrain subsidy programmes on anaemia, ZEF-Discussion Paper on Development Policy 245. DOI: 10.2139/ssrn.3055697

Pieters, H., **Gerber, N.** and Mekonnen, D.A., (2014). "Country typology on the basis of FNS. A typology of countries based on FNS outcomes and their agricultural, economic, political, innovation and infrastructure national profiles", FOODSECURE Technical papers 2, LEI Wageningen UR.

WATSAN and nutrition/health

Usman, M. A., and **Gerber, N.** (2021). Assessing the effect of irrigation on household water quality and health: A case study in rural Ethiopia. *International journal of environmental health research*, 31(4): 433-452. DOI: 10.1080/09603123.2019.1668544.

Usman, M. A. and **Gerber, N.** (2020). Irrigation, drinking water quality, and child nutritional status in northern Ethiopia. *Journal of Water, Sanitation and Hygiene for Development* 10(3): 425-434. DOI: 10.2166/washdev.2020.045

Gerber, N., von Braun, J., Usman, M.A Hasan, M.M., Okyere, C.Y., Vangani, R. and Wiesmann, D., (2019), Water, Sanitation and Agriculture Linkages with Health and Nutrition Improvement, ZEF – Discussion Papers on Development Policy No. 282. DOI: 10.2139/ssrn.3455952

Okyere, C. Y., Pangaribowo, E. H. and **Gerber, N.** (2019). Household Water Quality Testing and Information: Identifying Impacts on Health Outcomes and Sanitation-and Hygiene-Related Risk-Mitigating Behaviors. *Evaluation Review*, 43(6): 370-395. DOI: 10.1177/0193841X19885204

Usman, M., **Gerber, N.**, and von Braun, J. (2019). The Impact of Drinking Water Quality and Sanitation on Child Health: Evidence from Rural Ethiopia. *The Journal of Development Studies* 55(10): 2193-2211. DOI: 10.1080/00220388.2018.1493193

- Hasan, M. M., and **Gerber, N.** (2018). Bacterial contamination of drinking water and food utensils: impacts of piped water on child health in North-Western Bangladesh. *Water Resources and Rural Development*, DOI: 10.1016/j.wrr.2018.10.001
- Usman, M. A., **Gerber, N.**, and Pangaribowo, E. H. (2018). Drivers of microbiological quality of household drinking water – a case study in rural Ethiopia. *Journal of Water and Health*, 16(2): 275-288. DOI: 10.2166/wh.2017.069
- Vangani, R., Saxena, D., **Gerber, N.**, Mavalankar, D. and von Braun, J., (2016). Impact of different irrigation systems on water quality in peri-urban areas of Gujarat, India, ZEF-Discussion Papers on Development Policy 219. DOI: 10.2139/ssrn.2816782
- Malek, M.A., Khan, T.N., **Gerber, N.**, Saha, R. and Mohammad, I., (2016). Can a specially designed information intervention around the WASH-agriculture linkages make any difference? Experimental evidence of behavioral changes and health impacts. ZEF Discussion Papers on Development Policy 213. DOI: 10.2139/ssrn.2771018
- Behavioral issues at the margins of natural resources, agricultural, food, nutrition and health economics
- Nshakira-Rukundo, E., Mussa, E., Nshakira, N., **Gerber, N.**, and von Braun, J. (2021). Impact of community-based health insurance on utilisation of preventive health services in rural Uganda: a propensity score matching approach. *International Journal of Health Economics and Management*. DOI: 10.1007/s10754-021-09294-6
- Nshakira-Rukundo E., Mussa E.C., **Gerber N.** and von Braun J. (2020). Impact of voluntary community-based health insurance on child stunting: Evidence from rural Uganda. *Social Science and Medicine* 245: 112738. DOI: 10.1016/j.socscimed.2019.112738
- Sakketa, T.G. and **Gerber, N.** (2020), Rural Shadow Wages and Youth Agricultural Labor Supply in Ethiopia: Evidence from Farm Panel Data, in "Change at Home, in the Labor Market, and On the Job" (Research in Labor Economics, Vol. 48), edited by Polachek, S.W. and Tatsiramos, K. Emerald Publishing Limited, pp. 61-105. DOI: 10.1108/S0147-912120200000048003.
- von Braun, J., **Gerber, N.** and Abresch, V. (2019). Social change and policies driving the transformation of consumption in the food systems, in "Sustaining global food security: the nexus of Science and Policy", edited by R. S. Zeigler, CSIRO Publishing. ISBN: 9781486308088.
- Nshakira-Rukundo E., Mussa E.C., Nshakira N., **Gerber N.** and von Braun J. (2019) Determinants of enrolment and renewing of community-based health insurance in households with under-5 children in rural south-western Uganda. *International Journal of Health Policy and Management*. 8(10): 593-606. DOI:10.15171/ijhpm.2019.49.
- Sakketa T. G. and **N. Gerber** (2016). Relative Deprivation and Well-Being of the Rural Youth, Working Paper Series N° 296, African Development Bank, Abidjan, Côte d'Ivoire
- Mekonnen, D.A. and **Gerber, N.**, (2016). The effect of aspirations on agricultural innovations in rural Ethiopia. ZEF Discussion Papers on Development Policy 214. DOI: 10.2139/ssrn.2777383

Further publications lists are available on request or on <https://scholar.google.de/> , www.researchgate.net and <https://ideas.repec.org/>.