

RAYA MUTTARAK

JULY 2021

PERSONAL DETAILS

Nationality: Thai and Italian
Contact address: Population and Just Societies Program
International Institute for Applied Systems Analysis (IIASA)
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ACADEMIC POSITIONS

2021 – present **International Institute for Applied Systems Analysis** (Austria)
Director of the Population and Just Societies Program
2020 **International Institute for Applied Systems Analysis** (Austria)
Deputy Director of the World Population Program
2017 – present **Wittgenstein Centre for Demography and Global Human Capital**
(IIASA, VID/ÖAW, WU) (Austria)
Director of Population, Environment and Sustainable Development
2017 – 2020 **School of International Development, University of East Anglia** (UK)
Senior Lecturer in Geography and International Development
2011 – 2017 **Wittgenstein Centre for Demography and Global Human Capital**
(IIASA, VID/ÖAW, WU) (Austria)
Research scientist at Vienna Institute of Demography, Austrian Academy
of Sciences and research scholar at the World Population Program,
International Institute for Applied Systems Analysis (IIASA)
2009 – 2011 **Department of Political and Social Sciences, European University**
Institute (Italy)
Marie Curie Postdoctoral Fellow
2008 – 2009 **Max Weber Programme, European University Institute** (Italy)
Max Weber Postdoctoral Fellow
2007 – 2008 **Department of Sociology, University of Oxford** (UK)
Research officer for the project “Assessing affirmative action in Northern
Ireland”

ACADEMIC QUALIFICATION

2019 – 2025	Habilitation in Demography and Social Statistics (“Abilitazione Scientifica Nazionale, Prima Fascia”, National Scientific Qualification for full Professorship in the Italian university system) for the years 2019-2025
2019 – 2025	Habilitation in General Sociology (“Abilitazione Scientifica Nazionale, Prima Fascia”, National Scientific Qualification for full Professorship in the Italian university system) for the years 2019-2025
2003 – 2007	University of Oxford , St. Antony’s College DPhil in Sociology Thesis title “Interethnic unions in Britain: Considering intermarried couples and multiethnic children” (Supervisor: Professor Anthony Heath)
2002 – 2003	University of Oxford , St. Antony’s College MSc in Sociology (Distinction) Thesis title “Who intermarries in Britain: Ethnic intermarriage” (Supervisor: Professor Anthony Heath)
2000 – 2002	Waseda University (Tokyo, Japan) MA in International Relations Thesis title “Roles of domestic service in Thai modernity: Trends and problems” (Supervisor: Professor Glenda Roberts)
1999 – 2000	The Nagoya YWCA School of Japanese Language (Nagoya, Japan)
1995 – 1999	Chiang Mai University (Chiang Mai, Thailand) BA in Japanese (First Class Honours)

TEACHING

2017 – 2019	School of International Development, University of East Anglia Lecturer and module convenor in undergraduate courses “Methods in Human Geography”, “People and Place”, “Introduction to Human Geography”, “Geography Field Course”, “Migration and Development” Lecturer in master’s courses “Research Techniques and Analysis”, “Health and Development”, “Perspectives in Globalisation”
2016 – 2017	Department of Socioeconomics, Vienna University of Economics and Business (Vienna, Austria) Lecturer in undergraduate course “Migration Policy and Economics”
2010	Department of Political and Social Sciences, European University Institute (Florence, Italy) Lecturer in PhD course “Family, population, gender” Lecturer in PhD course “Life course and generational dynamics”
2007 – 2008	Department of Sociology, University of Oxford Lecturer in MSc course “Statistical methods for social scientists”

SUPERVISION

PhD thesis

Anna Dimitrova (2016-2020)

“From drought to deluge: Impact of rainfall variability on child undernutrition in Ethiopia and India”, Department of Socioeconomics, WU (Vienna University of Economics and Business) (Vienna, Austria)

Tananont Buathong (2013-2019)

“Determinants of completed marital fertility and fertility intention in Thailand”, College of Population Studies, Chulalongkorn University (Bangkok, Thailand)

PhD Supervisor for Young Scientist Summer Program (YSSP) at IIASA

Lisa Thalheimer (2020) “Towards attributing climate-related displacement in Somalia to anthropogenic climate change”

Amr Abdelwahed (2019) “Young People’s Migration Intention in Egypt”

Hélène Benveniste (2019) “Unpacking international migration assumptions in the Shared Socioeconomic Pathways (SSP) scenarios”

Wei Qi (2016) “Carbon footprint related to inter-regional population migration in China” (winner of YSSP award)

Dolly Kumari (2015) “Implications of care-giving and -taking on wellbeing of older persons and their caregivers in New Delhi”

Abhishek Kumar (2014) “Intergenerational influence on fertility behaviour of young women in rural Bihar, India”

Praveen Pathak (2013) “Social networks and fertility behaviour among women in Uttar Pradesh, India”

PhD Supervisor for Southern African Young Scientist Summer Program (SA-YSSP) at the University of the Free State (Bloemfontein, South Africa)

Martin Flatø (2014) “Female-headed households, land ownership, and vulnerability to climate change in South Africa” (winner of SA-YSSP award)

Mantsebo Letsie (2014) “Vulnerability to climate change and variability on crop yields and implications on household welfare in Lesotho”

Gerald Meke (2013) “Community management of forest resources: A case study of forest co-management in Zomba-Malosa Forest Reserve”

Alfred Murye (2013) “Environmental and socio-economic sustainability of marula harvesting in Swaziland”

SCHOLARSHIPS AND AWARDS

2020	Best Alumni Award , Japanese Division, Faculty of Humanities, Chiang Mai University Best Alumni
2007	Merit Award for Academic-Related Staff , University of Oxford
2002 – 2004	Clarendon Fund Bursary , University of Oxford (for doctoral study)
2000 – 2002	Scholarship for ASEAN Students , Tokio Marine Kagami Memorial Foundation (for master's study in Japan)
1999 – 2000	Japan Ambassadorial Scholarship , Rotary International (for Japanese language study in Japan)
1999	Gold Medal for BA graduation with GPA above 3.75 on the 4-scale, Chiang Mai University, Thailand

RESEARCH GRANTS

2021 – 2025	ERC Consolidator Grant – Project 'Population Dynamics under Global Climate Change (POPCLIMA) (PI) (€1,569,500)
2020	Vienna Anniversary Fund for the Austrian Academy of Sciences – Project 'Climate, Health and Population (CHAP): Climate Change and Differential Vulnerabilities in the Metropolitan Area of Vienna' (Co-investigator) (€120,000)
2017 – 2018	Climate Change Centre Austria for the project "APCC Special Report: Health, demography and climate change" (Co-Chair) (Grant agreement number: KR16AC0K13161) (€299,952)
2014 – 2018	The Research Council of Norway for the project "Sustainable European welfare societies: Assessing linkages between social and environmental policy" (Grant agreement number: 236930/H20) (Scientific Advisor) (~€10,000)
2013	Chula Global Network for organizing the conference "Demographic differential vulnerability to natural disasters in the context of climate change adaptation" (~€3,500)
2013 – 2014	Ratchadaphiseksomphot Endowment Fund of Chulalongkorn University (Climate Change Cluster) for the project "Understanding social barriers to coping with and adapting to extreme climate events" (Grant agreement number: RES560530150-CC) (PI) (~€10,000)
2009 – 2011	Marie-Curie Intra-European Fellowship , for the project "Trends and patterns of interethnic partnerships and well-being of mixed ethnic children in the EU" (PI) (Grant agreement number: 235319)

PUBLICATIONS

Summary of publications

2 scientific books, 2 edited special issues of scientific journals, 47 articles in scientific journals, 6 book chapters in refereed books, 16 working papers, 10 other non-refereed scientific publications

Note on list of publications: *Equal contribution and authors are listed alphabetically

Publications in high-impact journals

47. Hoffmann, R., Dimitrova, A., Muttarak, R., Crespo Cuaresma, J., & Peisker, J. (2020). A meta-analysis of country-level studies on environmental change and migration. *Nature Climate Change*, 1–9. <https://doi.org/10.1038/s41558-020-0898-6>
46. Dimitrova, A.* & Muttarak, R.* (2020). After the floods: Differential impacts of rainfall anomalies on child stunting in India. *Global Environmental Change*, 64, 102130.
45. Andrijevic, M., Crespo Cuaresma, J.*, Muttarak, R.*, & Schleussner, C.-F.* (2020). Governance in socioeconomic pathways and its role for future adaptive capacity. *Nature Sustainability*, 3(1), 35–41.
44. Abel, G. J.*, Brottrager, M.*, Crespo Cuaresma, J.*, & Muttarak, R.* (2019). Climate, conflict and forced migration. *Global Environmental Change*, 54, 239–249.
43. Puma, M. J., Chon, S. Y.*, Kakinuma, K.*, Kummu, M.*, Muttarak, R.*, Seager, R.*, & Wada, Y.* (2018). A developing food crisis and potential refugee movements. *Nature Sustainability*, 1(8), 380–382.
42. Lutz, W.* & Muttarak, R.* (2017) Forecasting societies' adaptive capacities through demographic metabolism model. *Nature Climate Change*, 7, 177-184.
41. Ghislandi, S.*, & Muttarak, R.* (2016). Fair choices in universal health coverage in Thailand. *The Lancet*, 388(10050), 1155–1156.
40. Muttarak, R., Steiber, N., & Gallus, S. (2015). Smoking ban in Austria: a long overdue step but still a lot to be done. *The Lancet*, 385(9972), 941–942.
39. Lutz, W.*, Muttarak, R.*, & Striessnig, E.* (2014). Universal education is key to enhanced climate adaptation. *Science*, 346(6213), 1061–1062.

Articles in refereed scientific journals

Published

38. Benveniste, H., Cuaresma, J. C.*, Gidden, M.*, & Muttarak, R.* (2021). Tracing international migration in projections of income and inequality across the Shared Socioeconomic Pathways. *Climatic Change*, 166(3), 39

37. Ghislandi, S.*, Muttarak, R.*, Sauerberg, M.*, & Scotti, B.* Human costs of the first wave of the COVID-19 pandemic in the major epicenters in Italy. *Vienna Yearbook of Population Research* (forthcoming).
36. Hunter, L.M., Koning, S., Fussell, E., King, B., Rishworth, A., Merdjanoff, A., Muttarak, R., Riosmena, F., Simon, D., Skop, E. & Van Den Hoek, J. (2021). Scales and sensitivities in climate vulnerability, displacement, and health. *Population and Environment*. <https://doi.org/10.1007/s11111-021-00377-7>
35. Liang, S., Yang, X., Qi, J., Wang, Y., Xie, W., Muttarak, R., & Guan, D. (2020). CO2 Emissions Embodied in International Migration from 1995 to 2015. *Environmental Science & Technology*. <https://doi.org/10.1021/acs.est.0c04600>
34. Marois, G.*, Muttarak, R.*, & Scherbov, S.* (2020). Assessing the potential impact of COVID-19 on life expectancy. *PLOS ONE*, 15(9), e0238678.
33. Hoffmann, R.*, & Muttarak, R.* (2020). Greening through schooling: understanding the link between education and pro-environmental behavior in the Philippines. *Environmental Research Letters*, 15(1), 014009.
32. Borderon, M., Sakdapolrak, P., Muttarak, R., Kebede, E., Pagogna, R., & Sporer, E. (2019). Migration influenced by environmental change in Africa: A systematic review of empirical evidence. *Demographic Research*, 11, 491–544.
31. Muttarak, R., & Dimitrova, A. (2019). Climate change and seasonal floods: potential long-term nutritional consequences for children in Kerala, India. *BMJ Global Health*, 4(2), e001215.
30. Abel, G. J., Muttarak, R., Bordone, V., & Zagheni, E. (2019). Bowling together: Scientific collaboration networks of demographers at European population conferences. *European Journal of Population*, 35(3), 543–562.
29. Muttarak, R. (2018). Too few nutrients and too many calories: climate change and the double burden of malnutrition in Asia. *Asian Population Studies*, 1–7. doi:10.1080/17441730.2018.1543960
28. Muttarak, R. (2018). Response to Alleva and Tylka and Flint et al. *Obesity*, 26(10), 1529–1529.
27. Muttarak, R. (2018). Normalization of plus size and the danger of unseen overweight and obesity in England. *Obesity*, 26(7), 1125–1129.
26. Jakobsson, N.*, Muttarak, R.* & Schøyen, M.* (2018) Dividing the pie in the eco-social state: Exploring the relationship between public support for environmental and welfare policies. *Environment and Planning C: Government and Policy*, 36(2), 313-339.
25. Muttarak, R. (2017). Moving along the Belt and the Road: Implications of China's 'One Belt, One Road' strategies on Chinese migration. *Translocal Chinese: East Asian Perspectives*, 11(2017), 312–332.
24. Qi, W., Abel, G. J., Muttarak, R., & Liu, S. (2017). Circular visualization of China's internal migration flows 2010–2015. *Environment and Planning A: Economy and Space*, 49(11), 2432–2436.
23. Hoffmann, R.*, & Muttarak, R.* (2017) Learn from the past, prepare for the future: Impacts of education and experience on disaster preparedness in the Philippines and Thailand. *World Development*, 96, 32-51.

22. Chankrajang, T.*, & Muttarak, R.*. (2017) Green returns to education: Does schooling contribute to pro-environmental behaviours? Evidence from Thailand. *Ecological Economics*, 131, 434-448.
21. Flatø, M.*, Muttarak, R.*, & Pelsler, A*. (2017). Women, weather, and woes: The triangular dynamics of female-headed households, economic vulnerability, and climate variability in South Africa. *World Development*, 90, 41–62.
20. Kumar, A., Bordone, V., & Muttarak, R. (2016) Like mother(-in-law) like daughter? Influence of the older generation's fertility behaviours on women's desired family size in Bihar, India. *European Journal of Population*, 32, 629-660.
19. Gallus, S., Ascitto, R., Muttarak, R., Pacifici, R., La Vecchia, C., & Lugo, A. (2016). Which group of smokers is more vulnerable to the economic crisis? *Public Health*, 134, 34–38.
18. Muttarak, R., Lutz, W. and Jiang, L. (2016). What can demographers contribute to the study of vulnerability?. *Vienna Yearbook of Population Research*, 13, 1-17.
17. Zagheni, E., Muttarak, R., & Striessnig, E. (2016) Differential mortality patterns from hydro-meteorological disasters: Evidence from vital records of cause of death data by sex and age. *Vienna Yearbook of Population Research*, 13, 47-70.
16. Muttarak, R., & Chankrajang, T. (2016) Who is concerned and does something about climate change? Gender and education divide among Thais. *Vienna Yearbook of Population Research*, 13, 193-220.
15. Witvorapong, N., Muttarak, R., & Pothisiri, W. (2015). Social participation and disaster risk reduction behaviors in tsunami prone areas. *PLoS ONE*, 10(7), e0130862.
14. Gallus, S.*, Ghislandi, S.*, & Muttarak, R.* (2015). Effects of the economic crisis on smoking prevalence and number of smokers in the USA. *Tobacco Control*, 24(1), 82–88.
13. Skirbekk, V., Stonawski, M., Fukuda, S., Spoorenberg, T., Hackett, C., & Muttarak, R. (2015). Is Buddhism the low fertility religion of Asia? *Demographic Research*, 32(1), 1–28.
12. Muttarak, R., & Lutz, W. (2014). Is education a key to reducing vulnerability to natural disasters and hence unavoidable climate change? *Ecology and Society*, 19 (1), 42.
11. Basten, S.*, Muttarak, R.*, & Pothisiri, W.* (2014). "The persistence of parent repayment" and the anticipation of filial obligations of care in two Thai provinces. *Asian Social Work and Policy Review*, 8(2), 109–122.
10. Muttarak, R., & Pothisiri, W. (2013). The role of education on disaster preparedness: Case study of 2012 Indian Ocean earthquakes on Thailand's Andaman coast. *Ecology and Society*, 18(4), 51.
9. Garbero, A.*, & Muttarak, R.* (2013). Impacts of the 2010 droughts and floods on community welfare in rural Thailand: Differential effects of village educational attainment. *Ecology and Society*, 18(4), 27.
8. Muttarak, R. (2013). Generation, ethnic and religious diversity in friendship choice: exploring interethnic close ties in Britain. *Ethnic and Racial Studies*, 37(1), 71–98.
7. Muttarak, R., Gallus, S., Franchi, M., Faggiano, F., Pacifici, R., Colombo, P., & La Vecchia, C. (2013). Why do smokers start? *European Journal of Cancer Prevention*, 22, 181–186.
6. Gallus, S., Muttarak, R., Franchi, M., Pacifici, R., Colombo, P., Boffetta, P., et al. (2013). Why do smokers quit? *European Journal of Cancer Prevention*, 22, 96–101.

5. Muttarak, R., Hamill, H., Heath, A., & McCrudden, C. (2013). Does affirmative action work? Evidence from the operation of Fair Employment Legislation in Northern Ireland. *Sociology*, 47(3), 560–579.
4. Gallus, S., Muttarak, R., Martínez-Sánchez, J. M., Zuccaro, P., Colombo, P., & La Vecchia, C. (2011). Smoking prevalence and smoking attributable mortality in Italy, 2010. *Preventive Medicine*, 52(6), 434–438.
3. Muttarak, R., & Heath, A. (2010). Who intermarries in Britain? Explaining ethnic diversity in intermarriage patterns. *British Journal of Sociology*, 61(2), 275–305.
2. Muttarak, R. (2010). Explaining trends and patterns of immigrants' partner choice in Britain. *Journal of Family Research – Zeitschrift für Familienforschung*, 22(1), 39–66.
1. Muttarak, R. (2004). Domestic service in Thailand: Reflection of conflicts in gender, class and ethnicity. *Journal of Southeast Asian Studies*, 35(03), 503–529.

Under review

- Hoffmann, R.*, Muttarak, R.*, Peisker, J.*, & Stanig, P*. Climate change experiences activate environmental concerns and promote green voting (submitted)
- Muttarak, R. Applying concepts and tools in demography for estimating, understanding and forecasting forced migration flows(submitted).
- Muttarak, R. Demographic perspectives in research on global environmental change (submitted).
- Niva, V.; Kallio, M., Muttarak, R. Taka, M., Varis, O. & Kummu, M. Global migration is driven by the complex interplay between environmental and social factors (submitted).
- Chen, S., Huang, Q., Muttarak, R., Fang, J., Liu, T., He, C., Liu, Z. & Zhu, L. Updating global urbanization projections under the Shared Socioeconomic Pathways (submitted).
- Thalheimer, L., Sihan, L., Crespo Cuaresma, J.*, Mechler, R.*, Muttarak, M.* & Otto, F.* Towards attributing climate-related displacement to anthropogenic climate change (submitted)

Book/ Edited book/Special issue

4. Spitzer, S., Di Lego, V.*, Greulich, A.*, Muttarak, R.* & (Eds.). (forthcoming). Demographic Aspects of Human Wellbeing. *Vienna Yearbook of Population Research*. Vienna: Austrian Academy of Sciences Press.
3. Bengtsson, S., Barakat, B., & Muttarak, R. (2018) *The Role of Education in Enabling the Sustainable Development Agenda*. Abingdon, Oxon and New York: Routledge.
2. Muttarak, R. & Jiang, L. (Eds.). (2016). Demographic Differential Vulnerability to Climate-Related Disasters. *Vienna Yearbook of Population Research*, 13. Vienna: Austrian Academy of Sciences Press.
1. Aybek, C.* M., Huinink*, J., & Muttarak, R.* (Eds.). (2015). *Spatial Mobility, Migration, and Living Arrangements*. Cham: Springer.

Book chapters

6. Muttarak, R. (forthcoming). Adaptive capacity and resilience to climate change from a demographic perspective. In L. Hunter, C. Gray, J. Veron (Eds.), *Handbook of Population and Environment*. Springer.
5. Muttarak, R., & Testa, M. R. (2015). Trends and patterns of inter-religious partnerships in Austria (1971-2001): The role of secularization and demographic changes. In B. J. Grim, T. M. Johnson, V. Skirbekk, & G. A. Zurlo (Eds.), *Yearbook of International Religious Demography 2015* (pp. 117–135). Leiden/Boston: Brill.
4. Arpino, B.*, Muttarak, R.*, & Vitali, A.* (2015). Comparing living arrangements of immigrant young adults in Spain and the United States. In C. M. Aybek, J. Huinink, & R. Muttarak (Eds.), *Spatial Mobility, Migration, and Living Arrangements* (pp.161-187) . Cham: Springer.
3. Aybek, C. M.*, Huinink, J.*, & Muttarak, R.* (2015). Migration, spatial mobility, and living arrangements: An introduction. In C. M. Aybek, J. Huinink, & R. Muttarak (Eds.), *Spatial Mobility, Migration, and Living Arrangements* (pp. 1–19). Cham: Springer.
2. Muttarak, R., Hamill, H., Heath, A., & McCrudden, C. (2015). L'action positive est-elle efficace ? Une évaluation empirique du programme pour l'équité dans l'emploi en Irlande du Nord. In J. Ringelheim, G. Herman, & A. Rea (Eds.), *Politiques antidiscriminatoires* (pp. 173–193). Louvain-la-Neuve: De Boeck.
1. Muttarak, R. (2011). Occupational mobility in the life course of intermarried immigrants. In M. Wingens, M. Windzio, C. Aybek, & H. de Valk (Eds.), *A Life-Course Perspective on Migration and Integration* (pp. 211–238). Dordrecht: Springer.

Other publications

10. TWI2050 - The World in 2050 (2020). (contributing author). Innovations for Sustainability. Pathways to an efficient and post-pandemic future. Report prepared by The World in 2050 initiative. International Institute for Applied Systems Analysis (IIASA). Laxenburg, Austria. ISBN 13: 978-3-7045-0157-8 DOI: 10.22022/TNT/07-2020.16533.
9. IPCC Sixth Assessment Report Working Group II Impacts, Adaptation and Vulnerability, Chapter 13: Europe (forthcoming) (contributing author).
8. European Commission and International Institute for Applied Systems Analysis (2019). (contributing author). Demographic scenarios for the EU: Migration, Population and Education. Brussels: Joint Research Centre.
7. Austrian Panel on Climate Change (Editors: Haas, W.*, Moshhammer, H.*, Muttarak, R.* & Koland, O.) (2018). Austrian Special Report 2018: Health, Demography and Climate Change. Vienna: Austrian Academy of Sciences Press.

6. TWI2050 - The World in 2050 (2018). (contributing author). Transformations to Achieve the Sustainable Development Goals. Report prepared by The World in 2050 initiative. International Institute for Applied Systems Analysis (IIASA). Laxenburg, Austria. ISBN 978-3-7045-0154-7 DOI:10.22022/TNT/07-2018.15347.
5. UNICEF (Lead authors: Muttarak, R. & Flatø, M.) (2016). Climate-related hazards and urbanization: Protecting Uganda's Children. Kampala: UNICEF.
4. Barakat, B., Bengtsson, S., Muttarak, R. & Kebede, E. (2016). Education as a driver of sustainable change: Education & the Sustainable Development Goals. Background paper prepared for Global Education Monitoring Report. Paris: UNESCO.
3. Muttarak, R., Striessnig, E., & Lutz, W. (2014). Here's a better way to spend the UN's \$100B Green Climate Fund. *Ensia*. <http://ensia.com/voices/heres-a-better-way-to-spend-the-uns-100b-green-climate-fund/>
2. KC, S.*, Lutz, W.*, Loichinger, E.*, Muttarak, R.*, & Striessnig, E.* (2014). Reducing vulnerability in critical life course phases through enhancing human capital. 2014 UNDP Human Development Report Office. Occasional Paper.
1. McCrudden, C., Muttarak, R., Hamill, H., & Heath, A. (2009). Affirmative action without quotas in Northern Ireland. *The Equal Rights Review*, 4, 7–14.

Working Papers

17. Hoffmann, R.*, Muttarak, R.*, Peisker, J.*, & Stanig, P.* (2021). Voting for tomorrow: Climate change, environmental concern and green voting (No. 146). Milan: Carlo F. Dondena Centre for Research on Social Dynamics and Public Policy, Bocconi University.
16. Muttarak, R. (2021). Demographic perspectives in research on global environmental change (IIASA Working Paper No. WP-21-001). Laxenburg, Austria: International Institute for Applied Systems Analysis (IIASA).
15. Marois, G.*, Muttarak, R.*, & Scherbov, S.* (2020). Assessing the potential impact of COVID-19 on life expectancy (IIASA Working Paper No. WP-20-005). Laxenburg, Austria: International Institute for Applied Systems Analysis (IIASA).
14. Ghislandi, S.*, Muttarak, R.* & Shaikh, M.* (2020). Empowering girls, delaying marriage: Exploring the role of marital age and education on domestic violence in India. (IIASA Working Paper No. WP-20-002). Laxenburg, Austria: International Institute for Applied Systems Analysis (IIASA).
13. Abel, G.J.*, Brotrager, M.*, Crespo Cuaresma, J.* & Muttarak, R.* (2018) Climate, conflict and forced migration. Department of Economics Working Paper Series, 272. WU Vienna University of Economics and Business, Vienna.
12. Borderon, M., Sakdapolrak, P., Muttarak, R., Kebede, E., Pagogna, R., & Sporer, E. (2018). A systematic review of empirical evidence on migration influenced by environmental change in Africa (IIASA Working Paper No. WP-18-003). Laxenburg, Austria: International Institute for Applied Systems Analysis (IIASA).

11. Abel, G.J.*, Bordone, V.*, Muttarak, R.* & Zagheni, E.* (2018). Bowling together: Scientific collaboration networks of demographers at European Population Conferences (VID Working Paper No. 1/2018). Vienna, Austria: Vienna Institute of Demography of the Austrian Academy of Sciences.
10. Qi, W., Muttarak, R., & Abel, G. (2017). Bilateral Migration Measures (IIASA Working Paper No. WP-17-014). Laxenburg, Austria: International Institute for Applied Systems Analysis.
9. Muttarak, R. (2017) Potential implications of China's 'One Belt, One Road' strategies on Chinese international migration. (VID Working Paper No. 5/2017). Vienna, Austria: Vienna Institute of Demography of the Austrian Academy of Sciences.
8. Hoffmann, R.*, & Muttarak, R.* (2015). A tale of disaster experience in two countries: Does education promote disaster preparedness in the Philippines and Thailand (VID Working Paper No. 9/2015). Vienna, Austria: Vienna Institute of Demography of the Austrian Academy of Sciences.
7. Muttarak, R., & Chankrajang, T. (2014). Demographic differentials in the concern about climate change and engagement in climate-friendly behaviours (IIASA Interim Report No. IR-14-018). Laxenburg, Austria: International Institute for Applied Systems Analysis.
6. Kumar, A., Bordone, V., & Muttarak, R. (2014). Influence of the older generation's fertility behaviours on women's desired family size in Bihar, India (VID Working Paper 4/2014). Vienna, Austria: Vienna Institute of Demography.
5. KC, S.*, Lutz, W.*, Loichinger, E.*, Muttarak, R.*, & Striessnig, E.* (2014). Reducing vulnerability in critical life course phases through enhancing human capital (Interim Report No. IR-14-001). Laxenburg, Austria: Institute for Applied Systems Analysis.
4. Witvorapong, N., Muttarak, R., & Pothisiri, W. (2013). Social participation and disaster risk reduction behaviours: Case study of tsunami-risk areas in southern Thailand (IIASA Interim Report No. IR-13-019). Laxenburg, Austria: International Institute for Applied Systems Analysis (IIASA).
3. Muttarak, R. (2013). Is it (dis)advantageous to have mixed parentage? Exploring education & work characteristics of children of interethnic unions in Britain (VID Working Paper 01/2013). Vienna: Vienna Institute of Demography.
2. Muttarak, R. (2009). Explaining trends and patterns of immigrants' partner choice in Britain (MWP 2009/33). Florence: European University Institute.
1. Muttarak, R. (2007). Does interethnic union promote occupational mobility of ethnic minority in Britain? (Working Paper Number 2007/4). Oxford: Department of Sociology, University of Oxford.

INVITED TALKS

- “Demographic perspective in climate change an environmental challenges”, United Nations Population Division Expert Group Meeting (virtual) on Population and Sustainable Development, 22 July 2021 (online).
- “Demographic perspectives on sustainable development and COVID-19”, Promoting sustainable development in the aging world workshop, Keynote lecture, College of Population Studies, Chulalongkorn University, 7 June 2021 (online).
- “Human migration in the face of global climate change”, Center for Demographic Studies (CED), Universitat Autònoma de Barcelona, Colloquium, 22 April 2021 (online).
- “Climate change and differential food consumption and food security from a demographic perspective.”, Population, Food and the Environment: IUSSP Webminar Series Joint webinar in association with the Population Association of America (PAA), 9 April 2021 (online).
- “The gendered nature of the COVID-19 pandemic”, Netherlands Interdisciplinary Demographic Institute (NIDI), Brownbag Seminar, 9 February 2021 (online).
- “Gender differentials and the COVID-19 pandemic”, Gaidar Forum 2021: Russia and the World after the Pandemic, 15 January 2021 (online).
- “Human migration in the face of climate change”, Klimawissen Online aus 1. Hand, Das Land Stiermark, 14 January 2021 (online).
- “Applying demographic perspectives in understanding of differential vulnerability to climate change (and to COVID-19)”, CEDEPLAR Weekly Seminar, 25 June 2020 (online).
- “Migration challenges in an ageing world under a changing climate: A demographic approach”. Keynote lecture, Aalborg University, 10 June 2020 (online).
- “Global Research Networks”. Systems Analysis and Africa conference. National Research Foundation, Pretoria, 3 December 2019.
- “Climate, conflict and migration: Review of evidence and Syria case study”. Regional workshop on Strengthening Migration Governance across the Rural-Urban Continuum jointly organised by FAO, IOM and UN-Habitat. Cairo, 27 November 2019.
- “Priorities for research on environmental migration in Asia”. Asian Population Forum. Asian Demographic Research Institute, University of Shanghai. 11 October 2019.
- “Education for Sustainable Development”. Q-estival 2019 – People, Data and Society. Exeter Q-Step Centre, University of Exeter. 11 September 2019.
- “How education contributes to reducing vulnerability and enhancing adaptive capacity in the context of climate change”. Africa Climate Series Seminar: “Investing in Human Capital to Counter the Climate Challenge”, World Bank. 18 June 2019 (online)..
- “Applying concepts and tools in demography for estimating, understanding and forecasting forced migration flows”. Workshop on Forced Migration: From Theory to Practice in Promoting Migrant Well-Being. U.S. National Academies of Sciences, Engineering, and Medicine (National Academies), 21-22 May 2019.

- “How education contributes to reducing vulnerability and enhancing adaptive capacity in the context of climate change”. Leopoldina Symposium: Brain Power for Sustainable Development. German National Academy of Sciences Leopoldina, 13 June 2018.
- “Climate, conflict and forced migration”. FEEM Research Seminar, Fondazione Eni Enrico Mattei, 6 April 2018.
- “Applying demographic methods and concepts to the study of vulnerability to global environmental change”. TIES-GRASPA 2017 Conference on Climate and Environment, University of Bergamo, 26 July 2017.
- “Examining the link between climate, conflict and refugee flows using Heckman selection with gravity model”. Center for International Earth Science Information Network (CIESIN), Columbia University, 25 April 2017.
- “China’s One-Belt-One-Road strategy and its implications on population dynamics and socio-ecological impacts along the Belt and Road countries”. East Asian Integration lecture series, Taiwan, 17 November 2016.
- “Contribution of demography to the study of population and global environmental change: What more to be done”. Shanghai Population Forum, Shanghai University, 11 October 2016.
- “Demography that matters: How can studies of population and human capital contribute to sustainable development?”. UNICEF’s Speaker Series Uganda, Kampala, 1 December 2015.
- “What types of indicators are most suited for policy analysis?”. October Days for Sustainable Development, European Investment Bank, Luxembourg, 28 October 2015.
- “Who marries whom: Trends, patterns and consequences”. University of Washington, Seattle, 4 May 2015.
- “Does the financial crisis have a role on smoking behaviour?”. Public Health Seminar, University of California, Irvine, 7 May 2012.
- “Comparing educational attainment and employment status of mixed ethnic, second generation and native British children in the UK”, International Conference on Migration, Identity, and Social Cohesion in Europe, Institute of European and American Studies, Academia Sinica, Taipei, Taiwan, 15-16 December 2010.
- “Who do immigrants marry? Exploring patterns of partnerships formation of ethnic minorities in Britain,”, Family and Migration Workshop, Wissenschaftszentrum Berlin für Sozialforschung (WZB), Berlin, Germany, 18-19 November 2010.
- “Exploring cognitive development of children growing up in an interethnic family, co-ethnic family and native (British) family in the UK”. VID Colloquium, Vienna Institute of Demography, Vienna, Austria, 23 September 2010.
- “Is there any benefits from an interethnic partnership? Evidence from maternal health access & cognitive development of mixed ethnic, second generation & British children in the UK”, Contribution of Area Studies to the Knowledge of Ethnic Tensions: Interdisciplinary Methodological Approaches, The Ohio State University and Polish Academy of Sciences, Warsaw, Poland, 14-19 December 2009.

- “The impact of the Northern Ireland affirmative action programme on Catholic and Protestant employment”, DONDENA Seminars Spring 2009, Università Commerciale Luigi Bocconi, Milan, Italy, 11 May 2009.
- “Health and well-being of children of interethnic unions in the UK: Evidence from the Millennium Cohort Study”, INSIDE Seminars, Institute of Economic Analysis, Barcelona, Spain, 5 May 2009.
- “Researching mixedness and mixing – concepts and substance”, Conference on Mixedness and Mixing: Exploring Issues for Research, Practice and Policy, London South Bank University, London, UK, 28 September 2007.
- “Do intermarried individuals perform better in the labour market?”, ONS LS Ethnicity Research Workshop, London School of Hygiene & Tropical Medicine, London, UK, 11 November 2005.

SELECTED CONFERENCE PRESENTATIONS

- “Learning about internal migration from half a billion individual records: Applying localized classification trees to large-scale census data”, Population Association of America 2019 Annual Meeting, Austin, 10-13 April 2019.
- “After the floods: Differential impacts of rainfall anomalies on child health in India”, Population Association of America 2019 Annual Meeting, Austin, 10-13 April 2019.
- “Forecasting societies’ adaptive capacities through a demographic metabolism model”. Scenario Forum 2019, Denver, 11-13 March 2019.
- “Explaining the link between education and green behavior in the Philippines: the role of knowledge and climate change perception”. European Population Conference, Brussels, 6-9 June 2018.
- “Examining the link between climate, conflict and cross-border migration using Heckman selection with gravity model”. XXVIII IUSSP International Population Conference, Cape Town, South Africa, 29 October-3 November 2017.
- “Explaining the link between education and green behavior in the Philippines: The role of knowledge and climate change perception”. Population Association of America 2017 Annual Meeting, Chicago, 27-29 April 2017.
- “Who is moving? Exploring internal migration by gender and education across 58 countries”. Population Association of America 2017 Annual Meeting, Chicago, 27-29 April 2017.
- “Simplifying the complex: Alternative measures of bilateral migration”. Population Association of America 2017 Annual Meeting, Chicago, 27-29 April 2017.
- “Too educated to want more children? education and changing fertility intention in a low fertility context: The case of Thailand”. Population Association of America 2017 Annual Meeting, Chicago, 27-29 April 2017.
- “Examining the link between climate, conflict and cross-border migration using gravity model”. British Society for Population Annual Conference 2016, Winchester, 12-14 September 2016.
- “Examining the link between climate, conflict and cross-border migration using gravity model”. European Population Conference 2016, Mainz, 31 August-3 September 2016.
- “Bowling together: Scientific collaboration networks of European demographers”. European

- Population Conference 2016, Mainz, 31 August-3 September 2016.
- “When the well runs dry, where do we go now? Exploring internal migration due to climate stress in Asia and Central and South America”. European Population Conference 2016, Mainz, 31 August-3 September 2016.
- “Women, weather, and woes: the triangular dynamics of female-headed households, economic vulnerability, and climate variability in South Africa”. European Population Conference 2016, Mainz, 31 August-3 September 2016.
- “Learn from the past, prepare for the future: Impacts of education and experience on disaster preparedness in the Philippines and Thailand”. Population Association of America 2016 Annual Meeting, Washington DC, 31 March-2 April 2016.
- “When the well runs dry, when the water gets high: Exploring internal migration due to environmental stress in Americas and Southeast Asia”. Population Association of America 2016 Annual Meeting, Washington DC, 31 March-2 April 2016.
- “A tale of disaster experience in two countries: Demographic differentials in disaster preparedness in the Philippines and Thailand”. British Society for Population Studies 2015 conference, Leeds, 7-9 September 2015.
- “Believing, Belonging and Behaving: Exploring mismatch between climate change perceptions and individual mitigation behaviors across 27 European countries”. Our Common Future under Climate Change International Scientific Conference, UNESCO, Paris, 7-10 July 2015.
- “Differential mortality patterns from hydro-meteorological disasters: Evidence from vital records of cause of death by sex and age”. Population Association of America 2015 Annual Meeting, San Diego, 30 April-2 May 2015.
- “Interreligious unions in Austria and their impact on fertility behaviour and children’s religious affiliation”. WIREL conference 2014: Religion in Vienna: Urban Trends in a European Context”, Vienna, Austria, 20-21 November 2014.
- “Social participation and disaster risk reduction behaviours: Case study of tsunami-risk areas in southern Thailand”. European Population Conference 2014, Budapest, Hungary, 25-28 June 2014.
- “The impact of climate change on the demography of meteorological disaster mortality”. European Population Conference 2014, Budapest, Hungary, 25-28 June 2014.
- “The persistence of parent repayment’ and the anticipation of filial obligations of care in two Thai Provinces”. European Population Conference 2014, Budapest, Hungary, 25-28 June 2014.
- “The role of husband, mother-in-law and social networks on fertility patterns in rural India”. European Population Conference 2014, Budapest, Hungary, 25-28 June 2014.
- “Effects of the 2010 droughts and floods on community welfare in rural Thailand: Differential effects of village educational attainment”. XXVII IUSSP International Population Conference, Busan, Republic of Korea, 26-31 Aug 2013.
- “Trends and patterns of religious intermarriage in Austria (1971-2001): The role of secularization and demographic changes”. XXVII IUSSP International Population Conference, Busan, Republic of Korea, 26-31 Aug 2013.

- “The role of education on disaster preparedness: Case study of 2012 Indian ocean earthquakes and tsunami warnings on Thailand’s Andaman coast”. Population Association of America 2013 Annual Meeting, New Orleans, 11-13 April 2013.
- “Exploring differential vulnerability by population structure and education: Impacts of 2010 floods and droughts on rural livelihoods in Thailand”. Population Association of America 2013 Annual Meeting, New Orleans, 11-13 April 2013.
- “Understanding social barriers to climate change adaptation: Phang Nga region (Thailand) case study”. 2nd Asian Population Association Conference, Bangkok, 26-29 August 2012.
- “Puffing in hard times: Does the financial crisis have a role on smoking prevalence in the U.S.?”. Population Association of America 2012 Annual Meeting, San Francisco, 3-5 May 2012.
- “Living arrangements of children of immigrants in Spain and the United States: The role of cultural heritage and residential context”. Population Association of America 2012 Annual Meeting, San Francisco, 3-5 May 2012.
- “Enforcing affirmative action: Comparing the effects of agency negotiation, NGO, activism and litigation on fair employment participation in Northern Ireland”, The 2011 Spring Meeting of the ISA RC28, University of Essex, UK, 13-16 April 2011.
- “Is it really disadvantageous to have a mixed ethnic background? Comparing educational attainment of mixed ethnic, ethnic minority and white British children in the UK”. European Population Conference 2010, Vienna, Austria, 1-4 September 2010.
- “Is there any benefits from an interethnic partnership? Comparing health access & cognitive development of mixed ethnic, second generation & British children in the UK”, The 2010 Spring Meeting of the ISA RC28, University of Haifa, Haifa, Israel, 9-11 May 2010.
- “Fair participation in Northern Ireland”, Conference on Affirmative Action in the Labour Market: International Perspectives, British Academy, London, UK, 2-3 November 2009.
- “Health and well-being of children of interethnic unions in the UK: Evidence from the Millennium Cohort Study”, 9th Conference of European Sociological Association, Lisbon University Institute, Lisbon, Portugal, 2-5 September 2009.
- “Does interethnic marriage promote economic mobility of intermarried ethnic minorities in Britain?”, The 2008 Spring Meeting of the ISA RC28, European University Institute, Florence, Italy, 15-17 May 2008.
- “Marital assimilation: Interethnic marriage in Britain”, Australian Population Association 12th Biennial Conference: Population and Society: Issues, Research, Policy, Canberra, Australia, 15-17 September 2004.

POLICY-RELATED ACTIVITIES

Invited expert “OECD Trends Shaping Education”, OECD, virtual meeting, 8 March 2021.

Invited expert “Government-Government Policy Dialogues on Food security and nutrition for demographic dividend(s)”, UNFPA New York, virtual meeting, 11 March 2021.

SELECTED MEDIA COVERAGE

Newspaper

Bloomberg, Dagens Nyheter, Daily Mail, Der Spiegel, Der Standard, Die Presse, Forbes, HuffPost India, International Business Times, ORF, Nature Middle East, Newsweek, Rai News, Reuters, Sci.Dev.net, Süddeutsche Zeitung, Telegraph, The Daily Digest, The Economist, The Mirror, [The National](#), The Sun, The Times of India, US News, Wiener Zeitung

Radio and TV

Asia News, BBC Asian Network, BBC Kent, BBC Scotland, BBC3 Radio Counties, BBC Radio London, BBC5 Manchester, LBC radio (London), Radio FM4 (Austria), Talktalk Radio, Voice of America

PROFESSIONAL ACTIVITIES AND SERVICES

Conference/Workshop Organization

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| 2020 | Co-organizer of the IUSSP Population Environment Research Network Cyberseminar on “Population, Climate Change and Food Security”, 18-25 May 2020 |
| 2020 | Co-organizer of the Wittgenstein Centre Conference 2020 on “Demographic Aspects of the COVID-19 Pandemic and its Consequences”, 30 November-1 December 2020, Vienna, Austria |
| 2019 | Co-organizer of the Wittgenstein Centre Conference 2019 on “Demographic Aspects of Human Wellbeing”, 11-12 November 2019, Vienna, Austria |
| 2018 | Convener of the theme “Development, Environment and Space” for the European Population Conference 2018, 6-9 June 2018, Brussels, Belgium |
| 2017 | Co-organizer of the Asian Population Association (APA) Scientific Group on “One-Belt-One-Road Strategy and its Implications for International Migration and Socio-ecological Changes”, 10-11 October 2017, Shanghai, China |
| 2014 | Co-organizer of the IUSSP Climate Change Cluster Conference on “Demographic Differential Vulnerability to Natural Disasters in the Context of Climate Change Adaptation”, 23-25 April 2014, Kao Lak, Phang Nga, Thailand |
| 2011 | Co-organizer of the IMISCOE Network and MIGREMUS workshop on “Spatial Mobility, Family Lives and Living Arrangements”, 17-18 November 2011, University of Bremen, Bremen, Germany |
| 2011 | Co-organizer of the workshop “Policy Impact Evaluation: Methods and Results”, 19-20 May 2011, European University Institute, Florence, Italy |
| 2010 | Co-organizer of the conference “Understanding the Dynamics of Migration: Family, Generations and Inequalities”, 11-12 March 2010, European University Institute, Florence, Italy |

2009 Co-organizer of the conference “Max Weber Fellows’ Contribution to Social Sciences and Humanities”, 10-12 June 2009, European University Institute, Florence, Italy

Editorial board Population and Environment, Vienna Yearbook of Population Research

Referee activities

Journal and book proposal reviews: Acta Sociologica, ANNALS of the American Academy of Political and Social Science, BMC Public Health, Climatic Change, BMJ, Comparative Education Review, Ethnic and Migration Studies, Ethnic and Racial Studies, Environment, Development and Sustainability, European Journal of Health Economics, European Journal of Population, European Sociological Review, Explorations in Economic History, Geografiska Annaler B: Human Geography, Global Environmental Change, International Journal of Disaster Risk Reduction, Nature Climate Change, Natural Hazards, Population and Environment, Population Studies, Regional Environmental Change, Routledge, PLoS ONE, Science, Social Force, Social Science and Medicine, Sustainability, World Development

Project proposal evaluation: Belgian Research Action through Interdisciplinary Network, European Research Council (ERC) Advanced Grant, Fund for Scientific Research (FNRS) Belgium, National Science Centre Poland

Tenure track evaluation: Columbia University (2019), Oregon State University (2020)

Doctoral thesis examiner: Universitat Pompeu Fabra, University of East Anglia

Scientific advisor Project “Sustainable European Welfare societies: Assessing linkages between social and environmental policy” (The Research Council of Norway, Grant agreement number: 236930/H20)

United Nations Economic and Social Commission for Western Asia (UN-ESCWA)

World Health Organization, Women on the Move Expert group meeting

Chair Chair of Population Environment Research Network (PERN) – Panel of the International Union for the Scientific Study of Population (IUSSP) (2019-2020)

Panel member Population and Development in Small Island Developing States Panel of the International Union for the Scientific Study of Population (IUSSP) (2015-2018)

One-Belt-One-Road Strategy: Implications on Population Dynamics and Socio-Ecological Impacts Panel of the Asian Population Association (APA) (2016-2018)

Membership Asian Population Association, European Association for Population Studies, European Sociological Association, International Sociological Association Research Committee 28 (RC28) on Social Stratification and Mobility, International Union for the Scientific Study of Population, Population Association of America

TECHNICAL AND LANGUAGE SKILLS

Methods training: Survey research design, models for categorical response data, panel data, structural equation model, hierarchical model, demographic analysis, policy evaluation

Policy training: Summer School in “European Union Law and Policy on Immigration and Asylum”, Université Libre de Bruxelles, Brussels, Belgium

Software: ArcGIS, Excel, Endnote, Latex, MLWIN, SPSS, Stata, Zotero

Language skills: Thai – native speaker

English – fluent in speaking, reading and writing

Italian – fluent in speaking and reading, intermediate in writing

Japanese – fluent in speaking, intermediate in reading and writing

French – basic comprehension