Guy Jonathan Abel

CURRICULUM VITAE
March 2021

Details:

Address:	Office 543, Building 2,		Telephone:	+86 021 6613 3271
	School of Sociology and Political Science,		E-mail:	guy.abel@shu.edu.cn
	Shanghai University East Campus,		Web:	http://guyabel.com
	No. 333 Nanchen Lu, Shanghai 200444, China			

Academic Positions:

2015-	Distinguished Professor at the School of Sociology and Political Science, Shanghai University.
2015-	Leader of the International Migration Group at the Asian Demographic Research Institute, Shanghai University.
2017-	Research Scientist at the International Institute for Applied Systems Analysis.
2011-2017	Research Scientist at the Vienna Institute of Demography/Austrian Academy of Sciences.
2011-2012	Research Scientist at the International Institute for Applied Systems Analysis.
2009-2011	Senior Research Fellow at the ESRC Centre for Population Change, University of Southampton.
2009-2011	Senior Research Fellow at the Southampton Statistical Sciences Research Institute.
2007-2009	Research Assistant at the Southampton Statistical Sciences Research Institute.

Education:

2005-2009	Ph.D., Division of Social Statistics, University of Southampton. Thesis: *International migration flow table estimation.*
2004-2005	M.Sc. Social Statistics (awarded with Distinction), Division of Social Statistics, University of Southampton. Thesis: *Combining census and registration data to estimate detailed elderly migration flows in England and Wales.*
2002-2003	M.Sc. Statistics (awarded with Distinction), Institute of Mathematics, Statistics and Actuarial Science, University of Kent. Thesis: *Modelling asset return price volatility using the GARCH family of models.*
1998-2001	BA (Hons.) Economics & Statistics, University of Exeter.

Multidisciplinary Journal Publications:

Abel, G.J. and Cohen J. E. (2019). Bilateral international migration flow estimates for 200 countries *Scientific Data.* 6 (82)

Abel, G.J., Bakarat, B., K.C., S. and Lutz, W. (2016). Meeting the Sustainable Development Goals leads to lower world population growth. *Proceedings of the National Academy of Sciences.* 113 (50) 14294–14299

Abel, G.J. and Sander, N. (2014). Quantifying global international migration flows. *Science.* 343 (6178) 1520–1522.

Discipline Specific Journal Publications:

Abel, G. J. DeWaard, J. Ha, J. T., Almquist, Z. W. The form and evolution of international migration networks, 1990–2015 *Population Space and Place* Forthcoming.

Fiorio, L., Zagheni, E, Abel, G. J., Hill, J., Pestre, G., Letouzé, E., Cai, J. Analyzing the Effect of Time in Migration Measurement Using Geo-referenced Digital Trace Data *Demography* Forthcoming.

Abel, G.J. and Gietel-Basten, S. (2020) International remittance flows and the economic and social consequences of COVID-19 *Environment and Planning A* 52 (8) 1480-1482 .

Abel, G. J., Raymer, J., Qing, G., (2019). Driving Factors of Asian International Migration Flows. *Asian Population Studies.* 15 (3), 243–265.

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.

Abel, G.J., Brottrager, M., Crespo Cuaresma, J., Muttarak, R. (2019) Climate, Conflict and Forced Migration. *Global Environmental Change.* 54, 239–249.

Abel, G.J. (2018). Estimates of global bilateral migration flows by gender between 1960 and 2015. *International Migration Review.* 52 (3) 809–852.

Abel, G.J. and Heo, N. (2018). Subnational gender balances in South Korea. *Environment and Planning A.* 50 (5), 941–944

Abel, G. J. (2018). Non-zero trajectories for long-run net migration assumptions in global population projection models. *Demographic Research*, 38 (1), 1635–1662

Abel, G.J. and Heo, N (2018). Changing internal migration flows patterns in South Korea. *Regional Studies, Regional Science.* 5 (1) 78–80.

Qi, W., Abel, G.J., Muttarak, M. and Liu, S. (2017). Circular visualization of China's internal migration flows 2010–2015. *Environment and Planning A.* 49 (11), 2432–2436.

Grecequet, M., DeWaard, J., Hellmann J.J., and Abel, G.J. (2017). Climate Vulnerability and Human Migration in Global Perspective. *Sustainability* 9 (5), 720

Abel, G.J. (2015). fanplot: An R Package for visualising sequential distributions. *The R Journal.* 7 (2) 15–23.

Abel, G.J., Bijak, J., Forster, J.J., Raymer J. and Smith P.W.F. (2013). Integrating uncertainty in time series population forecasts: An illustration using a simple projection model. *Demographic Research*, 29 (43) 1187–1226.

Abel, G.J., Bijak, J., Findlay, A.M., McCollum, D. and Wiśniowski, A. (2013). Forecasting environmental migration to the United Kingdom: An exploration using Bayesian models. *Population and Environment*, 35 (2) 183–203.

Abel, G.J. (2013). Estimating global migration flow tables using place of birth data. *Demographic Research*, 28 (18) 505–546.

Raymer J., Abel, G.J. and Rogers, A. (2012). Does specification matter? Experiments with simple multiregional probabilistic population projections. *Environment and Planning A*, 44 (11) 2664–2686.

Abel, G.J. (2010). Estimation of international migration flow tables in Europe. *Journal of the Royal Statistical Society Series A (Statistics in Society)*, 173 (4) 797–825.

Abel, G.J., Bijak, J. and Raymer J. (2010). A comparison of official population projections with Bayesian time series forecasts for England and Wales. *Population Trends*, 141 95–114.

Raymer J., Abel, G.J. and Smith P.W.F. (2007). Combining census and registration data to estimate detailed elderly migration flows in England and Wales. *Journal of the Royal Statistical Society Series A (Statistics in Society)*, 170 (4) 891–908.

CONTRIBUTOR:

International Organisation of Migration. *World Migration Report 2020, Chapter 3 Migration and migrants: Regional dimensions and developments.*

International Organisation of Migration. *World Migration Report 2020, Chapter 8 Children and unsafe migration.*

International Organisation of Migration. *World Migration Report 2018, Chapter 2 Migration and migrants: A global*

overview.

International Organisation of Migration. *World Migration Report 2018, Chapter 3 Migration and migrants: Regional dimensions and developments.*

BOOK CHAPTERS:

KC, S., W. Lutz, Potančoková, G. Abel, B. Barakat, J. Eder, A. Goujon, S. Jurasszovich, T. Sobotka, M. Speringer, E. Striessnig, M. Wurzer, D. Yildiz, S. Hyun Yoo and K.Zeman. (2018). *Chapter 2: Approach, methods and assumptions.* In Lutz W., A. Goujon, S. KC, M. Stonawski, N. Stilianakis [eds.], Demographic and human capital scenarios for the 21st century. Luxembourg: Publications Office of the European Union: 19-28.

Sander, N., Abel, G.J. and Riosmena, F. (2014). *The future of international migration.* In W. Lutz, B. Butz and S. K.C. (Eds.), World Population and Human Capital in the 21st Century, 333-398, Chapter 6. Oxford University Press.

REPORTS:

Gendronneau, C., Wisniowski, A., Yildiz, D., Zagheni, E., Fiorio, L., Hsiao, Y., Stepanek, M., Weber, I., Abel, G., & Hoorens, S. (2019). Measuring Labour Mobility and Migration Using Big Data: Exploring the Potential of Social-Media Data for Measuring EU Mobility Flows and Stocks of EU Movers. *Report for European Commission Directorate-General for Employment, Social Affairs and Inclusion* doi: 10.2767/474282.

Abel, G. J., Barakat, B., Bengtsson, S., Hartman, K., KC, S., & Yildiz, D. (2018). Global migration and educational expansion: scenarios and projections of population. *Background paper prepared for the 2019 Global Education Monitoring report: Migration, displacement and education: building bridges, not walls.* ED/GEMR/MRT/2018/P1/37 Paris, France: UNESCO.

Hughes, C., Zagheni, E., Abel, G.J., Wiśniowski, A., Sorichetta, A., Weber, I., Tatem, A.J. (2016). Inferring Migrations: Traditional Methods and New Approaches based on Mobile Phone, Social Media. *Report for European Commission Project #VT/2014/093.*

Hackett, C. Conner, P., Stonawski, M., Skirbekk, V., Potančoková, M. and Abel, G.J. (2015). The Future of World Religions: Population Growth Projections, 2010-2050. *Pew Forum on Religion & Public Life.*

Goujon, A., Abel G.J. , Bauer R., Berghammer C., Cantele M., Fliegenschnee K., Gisser R., Janisch L., Krivanek D., Muttarak, R., Potančoková, M., Skirbekk V., Sobotka T., Speringer M., Stonawski, M., Testa, M, Zeman K. (2015). Religions in Vienna in the Past, Present and Future - Key Findings from the WIREL Project. *WIREL Project, Vienna Institute of Demography , Vienna, Austria.*

Hackett, C. Grim, B.J., Stonawski, M., Skirbekk, V., Potančoková, M. and Abel, G.J. (2012). The Global Religious Landscape: A Report on the Size and Distribution of the World's Major Religious Groups as of 2010. *Pew Forum on Religion & Public Life.*

Abel, G.J., Bijak, J., Wiśniowski, A., Findlay, A. and McCollum, D. (2011). MR8: Model specification and results of Bayesian forecasts of total and environmental immigration to the United Kingdom, 2010–2060 *Foresight Future Scenarios 2011, Government Office for Science, London.*

SECTIONS IN PROCEEDINGS:

Abel, G.J., K.C., Samir and Sander, N. (2013). Examining the role of international migration in global population projections. *Joint UNECE/Eurostat Work Session on Population Projections, Rome, Italy, 29-31 October 2013.*

Sander, N., Abel, G.J. and K.C., S., (2013). The impact of alternative assumptions about migration differentials by education on projections of human capital. *Joint UNECE/Eurostat Work Session on Population Projections, Rome, Italy, 29-31 October 2013.*

Abel, G.J., Basten, S., Fuchs, F., Garbero, A., Goujon, A., K.C., S., Pamuk, E., Riosmena, F., Sander, N., Sobotka, T., Striessnig, E. and Zeman, K. (2013). Developing expert-based assumptions on future fertility, mortality, and migration. *Joint UNECE/Eurostat Work Session on Population Projections, Rome, Italy, 29-31 October 2013.*

Abel, G.J., Bijak, J., Forster, J., Raymer J. and Smith P.W.F. (2010). Bayesian population forecasts for England and Wales. *Joint UNECE/Eurostat Work Session on Population Projections, Lisbon, Portugal, 28-30 April 2010.*

Raymer J., Forster, J., Smith P.W.F., Bijak, J., Wiśniowski, A. and Abel, G.J. (2010). The IMEM model for estimating international migration flows in the European Union. *Joint UNECE/Eurostat Work Session on Population Projections, Geneva, Switzerland, 14-16 April 2010.*

Raymer, J. and Abel, G.J. (2008). The MIMOSA model for estimating international migration flows in the European Union. *Joint UNECE/Eurostat Work Session on Migration Statistics, Geneva, Switzerland, 3-5 March 2008.*

R Software:

CRAN Packages:

fanplot *Visualisations of sequential probability distributions.* 🔗

migest *Methods for the indirect estimation of bilateral migration.* 🔗

Interactive Website:

Wittgenstein Centre Data Explorer. `http://www.oeaw.ac.at/vid/dataexplorer/`

Funding:

2007	ESRC Ph.D. Overseas Institutional Visit Allowance.
2004-2008	ESRC M.Sc. and Ph.D. (1+3) Funding Award..
2002-2003	EPSRC M.Sc. Funding Award.

Awards

| **2017** | Shanghai University Special Prize for Scientific Achievement. |
| **1999** | Dean of the Faculty of Social Sciences Commendation, University of Exeter. |

Advisory Roles:

Committee Member: IUSSP Panel on Big Data and Population Processes [↗]

IUSSP Panel on International Migration: Strengthening the Knowledge Base for Policy [↗]

Advisory Board: International Organisation for Migration - Research Leaders Syndicate [↗]

Journal Advisory Board: Applied Spatial Analysis and Policy [↗], Asian and Pacific Migration Journal [↗].

Journal Reviewer: Applied Spatial Analysis and Policy, Asian and Pacific Migration Journal, Data, Demographic Studies (Studia Demograficzne), Demography, Economic Systems, European Journal of Population, EPJ Data Science, International Migration Review, Genus: Journal of Population Sciences, International Journal of Forecasting, Journal of Economics and Statistics, Historical Methods: Journal of Health, Journal of International Migration and Integration, Journal of Official Statistics, Journal of Population Aging, Journal of Quantitative and Interdisciplinary History, Journal of the Royal Statistical Society: Series A, Nature Human Behaviour, Population and Development Review, Population and Environment, Population and Nutrition, Population Place and Space, Population Studies, Proceedings of the National Academy of Sciences, Science, Scottish Geographical Journal, Spatial Demography, Statistical Journal of the IAOS, Sustainability.

Report Reviewer: Pew Research Centre, WWWforEurope (European Commission).

Funding Reviewer: Fundação para a Ciência e Tecnologia (Portugal).

Visiting Positions:

2019	Institute of Sociology, Academia Sinica, Taipei, Taiwan R.O.C.
2014	Australian Demographic & Social Research Institute (ADSRI), Australian National University, Canberra, Australia.
2007	Institute of Statistical Science, Academia Sinica, Taipei, Taiwan R.O.C.

Teaching

Shanghai University:
| **2017-** | 3XS371022 Statistical Modelling Using R. *Lecturer.* |
| **2017-** | 3XS371026 Data Science Using R. *Lecturer.* |

KOSTAT-UNFPA Summer Seminar on Population:
| **2016-** | Demographic Analysis Using R. *Lecturer.* |

European Doctoral School of Demography:
| **2015-2017** | Population Projections. *Lecturer.* |

University of Southampton:
2011	DEMO6016 Population Projections. *Guest Lecturer.*
2009-2010	DEMO2004/3003 Migration. *Guest Lecturer.*
2009-2011	STAT3004 Multivariate Data Analysis. *Lecturer.*
2006	MATH6030 Statistical Computing II. *Demonstration Assistant.*

| 2006 | STAT1003 Introduction to Quantitative Methods. *Examination Marking Coordinator.* |
| 2004-2006 | STAT1003 Introduction to Quantitative Methods. *Demonstration Assistant.* |

Invited Presentations:

2019	International Conference on Migration, Diaspora and Development (Keynote Speaker), Nanjing University, Nanjing, China: *Bilateral international migration flow estimates for 200 countries* .
2019	115th CSMR Colloquium, Hanyang University, Seoul, South Korea: *Bilateral international migration flow estimates for 200 countries* .
2018	Earl and Edna Stice Memorial Lecture in Social Science, University of Washington, Seattle, USA: *Probabilistic Methods for Combining Migration Data.*
2018	University of Washington, Centre for Studies in Demography and Ecology Computational Demography Series, Seattle, USA: *Visualizing Migration Flows: How to Design and Produce Animated Directional Chord Diagrams in R.*
2018	University of Queensland, School of Earth and Environmental Science Seminar Series, Brisbane, Australia: *Gender, Education and Marital Status Differentials in Migration.*
2018	Australia National University School of Demography Weekly Seminar, Canberra, Australia: *Gender, Education and Marital Status Differentials in Migration.*
2017	Minnesota Population Centre Seminar Series, University of Minnesota, Minnesota, USA: *Quantifying international migration flows.*
2017	Dipartimento di Metodi e Modelli per l'Economia, il Territorio e la Finanza EDSD Colloquium Series, Sapienza Università di Roma, Rome, Italy: *Quantifying international migration flows.*
2016	Data and Methods for Modelling Migration Associated with Climate Change, Alliance Program Joint Project, Paris, France: *Quantifying international migration flows.*
2016	Institute of Geographic Sciences and Natural Resources Research Seminar, Chinese Academy of Sciences, Beijing, China: *Quantifying and visualising international migration flows.*
2016	IUSSP Side Meeting on Social Media and Demographic Methods, Washington D.C., USA: *Scientific collaboration networks for papers presented at European Population Conferences.*
2015	Statistical Society of Australia Webinar: *How statisticians uncovered the world's missing migrants.*
2015	Seminários Escola Nacional de Ciências Estatísticas IBGE, Rio de Janeiro, Brazil: *Methods for the indirect estimation of bilateral migration.*
2015	Warsaw School of Economics EDSD Seminar Series, Warsaw, Poland: *Global bilateral migration flows by gender between 1960 and 2010.*
2014	Australian Demographic & Social Research Institute Seminar Series, Canberra, Australia: *Global bilateral migration flows by gender between 1960 and 2010.*
2014	Joint KNOMAD-UN Population Division Seminar on the Role of Migration in Population Models, New York, USA *Quantifying global international migration flows.*
2014	University College Dublin Statistics Seminar Series, Dublin, Republic of Ireland: *Quantifying global international migration flows.*
2014	Vienna Institute of Demography Seminar Series, Vienna, Austria: *Quantifying global international migration flows.*
2014	Inference for Change Point Workshop, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom: *Volatility in international migration flows of Nordic countries: estimating past trends and lessons for forecasting with uncertainty.*
2011	Integrated Modelling of European Migration Workshop, Chilworth, United Kingdom: *Estimation of international migration flow tables in Europe.*
2010	Vienna Institute of Demography Seminar Series, Vienna, Austria: *Estimation of international migration flow tables in Europe.*
2008	Institute of Behavioural Science Colloquia, University of Colorado, Boulder, USA: *Modelling international student migrant tables.*

2007   Institute of Statistical Science Seminar Series, Academia Sinica, Taipei, Taiwan R.O.C.: *Estimating spatial structures of Italian interregional migration in the Bayesian paradigm.*

Conference Presentations:

2020   International Forum on Migration Statistics, Cairo, Egypt: *Bilateral international migration flow estimates for 200 countries.*

2019   Socinfo, Doha, Qatar: *Mapping gender-disaggregated migration movements at subnational scales in and between low- and middle-income countries .*

2019   British Society for Population Studies, Cardiff, United Kingdom: *Estimating Bilateral Migration Flows from Net Migration Totals.*

2018   5th Mahidol Migration Center Conference, Bangkok, Thailand: *Driving Factors of Asian International Migration Flows.*

2018   British Society for Population Studies, Winchester, United Kingdom: *Probabilistic Method for Combining Internal Migration Data.*

2018   Asian Population Association Conference, Shanghai, China: *Driving Factors of Asian International Migration Flows.*

2018   European Population Conference, Brussels, Belgium: *Probabilistic Method for Combining Internal Migration Data.*

2018   Population Association of America, Denver, USA: *Driving Factors of Asian International Migration Flows.*

2017   IUSSP International Population Conference, Cape Town, South Africa: *Who is moving? Exploring internal migration by gender and education across 58 countries.*

2017   IUSSP International Population Conference, Cape Town, South Africa: *International Migration in Europe.*

2017   British Society for Population Studies, Liverpool, United Kingdom: *Who is moving? Exploring internal migration by gender and education across 58 countries.*

2017   Shanghai Forum, Shanghai, China: *One Belt One Road and International Migration: Quantifying Past Patterns and Future Scenarios.*

2017   Population Association of America, Chicago, USA: *Who is moving? Exploring internal migration by gender and education across 58 countries.*

2016   Shanghai Population Forum, Shanghai, China: *Quantifying global international migration flows.*

2016   Asian Population Forum, Shanghai, China: *International Migration in Asia: Quantifying past, present and future trends.*

2016   British Society for Population Studies, Winchester, United Kingdom: *The form and evolution of international migration flow networks.*

2016   European Population Conference, Mainz, Germany: *When the well runs dry, when the water gets high: Exploring internal migration due to environmental stress in Latin America, Africa and Asia.*

2016   Urbanization and Social Development Forum, Qingdao, China: *Estimation of international migration between urban areas; past, present and future.*

2016   Population Association of America, Washington D.C., USA: *The form and evolution of international migration flow networks.*

2016   Population Association of America, Washington D.C., USA: *When the well runs dry, when the water gets high: Exploring internal migration due to environmental stress in Americas and Southeast Asia.*

2015   British Society for Population Studies, Leeds, United Kingdom: *Long run net migration assumptions and their impact on projected populations.*

2015   British Society for Population Studies, Leeds, United Kingdom: *When the well runs dry, when the water gets high: Exploring internal migration due to environmental stress in Americas and Southeast Asia.*

2015   World Statistics Congress, Rio de Janeiro, Brazil: *Estimates of global bilateral migration flows by gender between 1960 and 2010.*

2015	Population Association of America, San Diego, USA: *Estimates of global bilateral migration flows by gender between 1960 and 2010.*
2014	British Society for Population Studies, Winchester, United Kingdom: *Stochastic forecasting methods for total fertility rates in all countries.*
2014	Population Association of America, Boston, USA: *Examining the role of international migration in global population projections.*
2013	British Society for Population Studies, Swansea, United Kingdom: *Examining the role of international migration in global population projections.*
2013	IUSSP International Population Conference, Busan, South Korea: *Estimating global migration flow tables using place of birth data.*
2013	Joint UNECE/Eurostat Work Session on Population Projections, Rome, Italy: *Examining the role of international migration in global population projections.*
2013	Joint Statistical Meetings, Montreal, Canada: *Volatility in international migration flows of Nordic countries: estimating past trends and lessons for forecasting with uncertainty.*
2012	British Society for Population Studies, Nottingham, United Kingdom: *Estimating comparable global foreign born stock tables using the EM algorithm.*
2012	Population Association of America, San Francisco, USA: *estimating global migration flow tables using place of birth data.*
2010	British Society for Population Studies, Exeter, United Kingdom: *A comparison of official population projections with time series forecasts for England and Wales.*
2010	Research Methods Festival, Oxford, United Kingdom: *Modelling the age patterns of demographic events.*
2010	European Population Conference, Vienna, Austria: *Bayesian time series models for forecasting population growth in England and Wales.*
2010	Joint UNECE/Eurostat Work Session on Population Projections, Lisbon, Portugal: *Bayesian population forecasts for England and Wales.*
2009	QMSS 2 Multi-attribute analysis and projection of ethnic populations, Jevnaker, Norway: *A dynamic projection model for the UK population including minorities.*
2008	Young Demography Group of the German Association for Demography, Nuremberg, Germany: *Statistical modelling of international migration flow tables.*
2008	Royal Statistical Society Conference, Nottingham, United Kingdom: *Harmonization and estimation of missing cells in international migration flow tables.*
2008	Joint Statistical Meetings, Denver, USA: *Estimation of international migration flow tables.*
2007	Research Students Conference in Probability and Statistics, Glasgow, United Kingdom: *Estimating spatial structures of Italian interregional migration in the Bayesian paradigm.*
2007	POPFEST meeting of the British Society for Population Studies, Southampton, United Kingdom: *Combining census and registration data to estimate detailed elderly migration flows in England and Wales.*
2006	British Society for Population Studies, Southampton, United Kingdom: *The estimation of elderly migration patterns in England and Wales.*

Referees:

Available upon request.