

Dilek Yildiz

CONTACT INFORMATION	International Institute for Applied Systems Analysis Schlossplatz 1, 2361 Laxenburg, Austria dilek.yildiz@oeaw.ac.at yildiz@iiasa.ac.at https://orcid.org/0000-0001-6192-0634	
RESEARCH INTERESTS	Bayesian modelling, data combining, migration estimation, big/social media data sources, digital demography, population projections, wellbeing, quality of education	
SOFTWARE SKILLS	• R, JAGS, SPSS, WinBUGS, OpenBUGS, ARCGIS, Stata	
EDUCATION	Ph.D., Social Statistics and Demography University of Southampton, Southampton, UK Thesis: <i>Methods for Combining Administrative Data to Estimate Population Counts</i>	3 May 2016
	M.Sc., Economic and Social Demography Hacettepe University, Ankara, Turkey Thesis: <i>Sampling Error Estimation by Using Different Methods and Software in Complex Samples</i>	August 2011
	B.Sc., Statistics Middle East Technical University, Ankara, Turkey	September 2008
ACADEMIC POSITIONS	Vienna Institute of Demography (Research Scientist) Research Group: Human Capital Data Lab	February 2016 onwards
	• Bayesian reconstruction of populations and vital rates by educational attainment (<i>Principal Investigator</i>)	May 2020 onwards
	• Quality of Education	September 2019 onwards
	• Measuring Labour Mobility and Migration Using Big Data	January 2018 to February 2019
	• Wittgenstein Centre Human Capital Data Explorer	December 2017 onwards
	• Combining Traditional and Emerging Big Data Sources to Model Population Movement Patterns	February 2016 to February 2017
	International Institute for Applied Systems Analysis (Research Scientist) Research Group: Population and Just Societies Program	July 2017 onwards
	• Future Migration Scenarios for Europe (<i>Work package leader</i>)	December 2019 onwards
	• Years of Good Life	January 2018 onwards
	• Demographic and Human Capital Scenarios for the 21st Century: 2018 assessment for 201 countries	December 2017 to April 2018
	• Global Migration and Educational Expansion: Scenarios and Projections of Population-level Interactions hfill July 2017 to January 2018	
	University of Southampton (Researcher)	
	• Using Twitter Data for Population Estimates	February 2015 to June 2016
	• Assessing Adaptive Cluster Sampling for Accessing the Pastoralist Population, Afar, Ethiopia	September 2015 to November 2015
	Hacettepe University	
	• Research Assistant , Technical Demography	December 2009 to August 2012
	• Project Assistant , Turkey Demographic and Health Survey (Turkey DHS-2008)	November 2008 to December 2009

Accepted

- **Yildiz, D.** and Abel, G. “Migration data challenges and opportunities” chapter in Handbook of Migration and Technology, Edward Elgar Publishing.

Published

- Lutz, W., Striessnig E., Dimitrova A.*, Ghislandi, S.*, Lijadia, A.*, Reiter, C.*, Spitzer, S.*, **Yildiz, D.*** “Years of Good Life (YoGL): A wellbeing indicator designed to serve as sustainability criterion”, Proceedings of the National Academy of Sciences of the United States of America, 118(12), DOI: 10.1073/pnas.1907351118, 2021.
- Lutz, W., Reiter, C., Özdemir, C., **Yildiz, D.**, Guimaraes, R., Goujon, A., “Skills-adjusted human capital shows rising global gap”, Proceedings of the National Academy of Sciences of the United States of America, 118(7), DOI: 10.1073/pnas.2015826118, 2021.
- Reiter C, Özdemir C, **Yildiz D**, Goujon A , Guimaraes R , Lutz W. “The Demography of Skills-Adjusted Human Capital”. IIASA Working Paper. Laxenburg, Austria: WP-20-006, <http://pure.iiasa.ac.at/16477>, 2020.
- Sobotka, T., Zeman, K., Spitzer, S. , Reiter, C., di Lego, V., **Yildiz D**, Özdemir, C., Goujon, A. , et al. (2020). European Demographic Data Sheet 2020. Wittgenstein Centre (IIASA, VID/OEAW, WU), 2020.
- Gendronneau, C., Wisniowski, A., **Yildiz, D.**, Zagheni, E., Fiorio, L., Hsiao, Y., Stepanek, M., Weber, I., Abel, G., Hoorens, S. “Measuring Labour Mobility and Migration Using Big Data: Development of a Method to Measure Mobility Flows and Stocks within the EU Based on Data from Social Media.” *European Commission Directorate - General for Employment, Social Affairs and Inclusion*, DOI: 10.2767/474282, 2019.
- Abel, G.*, Barakat, B.*, Bengtsson, S.*, Hartman, K.*, KC, S.*, **Yildiz, D.*** “GEMR background report ”Global migration and educational expansion: Scenarios and projections of population level interactions””, UNESCO, ED/GEMR/MRT/2018/P1/37, 2018.
- Potančokova, M., **Yildiz, D.** “Future demographic trends in Eastern Europe and Central Asia”, chapter in *Demographic and Human Capital Scenarios for the 21st Century: 2018 assessment for 201 countries*, DOI: 10.2760/41776, 2018.
- KC, S., Lutz, W., Potančokova, M., Abel, G.*, Barakat, B.*, Eder, J.*, Goujon, A.*, Juraszovich, S.*, Sobotka, T.*, Speringer, M.*, Striessnig, E.*, Wurzer, M.*, **Yildiz, D.***, Hyun Yoo, S.*, Zeman, K.* “Approach, methods and assumptions”, chapter in *Demographic and Human Capital Scenarios for the 21st Century: 2018 assessment for 201 countries*, DOI: 10.2760/41776, 2018.
- **Yildiz, D.**, Munson, J., Vitali, A., Tinati, R. and Holland J. “Using Twitter Data for Demographic Research”, *Demographic Research*, 37(46): 1477-1514, 2017.
- **Yildiz, D.**, Adali, T. “Demographic transition and development of Belt and Road countries: Turkey”, Country report, One Belt One Road Initiative, 2017.
- **Yildiz, D.**, Smith, P. W. F. and van der Heijden, P. G. M. “Extending log-linear capture-recapture models to handle erroneous records in linked administrative data to estimate population counts”, *VID Working Paper*: 15/2017.
- **Yildiz, D.**, Smith, P. W. F. “Models for combining aggregate level administrative data in the absence of a traditional census”, *Journal of Official Statistics*, 31(3): 431-451, 2015.

- Raymer, J., **Yildiz, D.**, Smith, P.W.F. “Review of Methods for Estimating Populations with Administrative Data”, Consultancy report for the National Records of Scotland, 2013.
- Turkyilmaz, A. S., Ozgoren, A., **Yildiz, D.** “Differentials in receiving postpartum care of infants and its determinants in Turkey”, *The Turkish Journal of Pediatrics*, 55: 172-179, 2013.
- Yuksel, I., **Yildiz, D.**, Eryurt, M. A., Irez, M. “Male Contraceptive Use in Turkey: Determinants of Withdrawal and Condom Use”, chapter in *Turkey Demographic and Health Survey – 2008 Further Analysis*, ISBN: 978-975-491-290-6, 2010.
- Turkyilmaz, A. S., Ozgoren, A., **Yildiz, D.**, Bilgin, S., Tezel, B. “Differentials in Receiving Postpartum Care and Its Determinants in Turkey”, chapter in *Turkey Demographic and Health Survey – 2008 Further Analysis*, ISBN: 978-975-491-290-6, 2010.
- **Yildiz, D.**, Koc, I. “The change in the mean number of children of parliament members in Turkey: A comparative analysis with the overall population”, *Turkish Journal of Population Studies*, 30-31: 3-12, 2008-09.

Under review

- **Yildiz, D.**, Arslan H., Cavlin, A. “Understanding women’s wellbeing in Turkey”, submitted to Vienna Yearbook of Population Research.

Papers in Preparation

- **Yildiz, D.**, Wisniowski, A., Abel, G., Zagheni, E., Weber, I., Hoorens, S. “Combining traditional and social media bilateral migration data”
- **Yildiz, D.**, Adali, T. The demography of Turkey, Population and Societies, INED Newsletter.

SCIENTIFIC TALKS **Invited Presentations and Lectures**

- “Using R in demography” (in Turkish), Why R? Turkey Conference, online conference April 2021
- “Want to know how you can better organise your PhD life?”, ViDSS Brownbag lunch February 2021
- “A Bayesian approach on reconstructing multistate populations and education specific fertility rates”, United Nations expert group meeting on Methods for the World Population Prospects 2021 and Beyond April 2020
- “Measurement and methods in estimating international migration” in Migration and Development, BSc Lecture, University of East Anglia, UK October 2019
- “Demographic research” in Contemporary Migration Research, MSc Lecture, Masaryk University, Czech Republic March 2019
- “A new era for migration data? Innovative methodologies and data integration”, EuroScience Open Forum, Panel, Toulouse, France July 2018
- “Probabilistic methods for combining internal migration data”, University of Manchester, UK March 2017

Presentations

- IUSSP workshop on Digital Demography in the Era of Big Data, Seville, Spain:
“Combining traditional and social media bilateral migration data” June 2019
- Population Association of America Annual Meeting, Austin, USA:
“Combining traditional and social media bilateral migration data” April 2019
- British Society for Population Studies, Winchester, UK:
“Global projections of in- and out- migrants by educational attainment” September 2018
- European Population Conference (EPC), Brussels, Belgium:
“A Bayesian approach on reconstructing multistate population and education-specific fertility rates” June 2018
- International Union for the Scientific Study of Population, XXVIII International Population Conference, Cape Town, South Africa:
Discussant: “Social media, web and demography” October 2017
- British Society for Population Studies, Liverpool, UK:
“Bayesian reconstruction of multistate populations” September 2017
- Population Association of America Annual Meeting, Chicago, USA:
“Bayesian reconstruction of multistate populations” April 2017
- British Society for Population Studies, Winchester, UK:
“Assessing uncertainty when combining administrative data to estimate population counts” September 2016
- Royal Statistical Society International Conference, Exeter, UK:
“Assessing uncertainty when combining administrative data to estimate population counts” September 2015
- Joint Statistical Meetings, Seattle, USA:
“Assessing uncertainty when combining administrative data to estimate population counts” August 2015
- Royal Statistical Society International Conference, Sheffield, UK:
“Extending log-linear capture-recapture models to handle erroneous records in linked administrative data to estimate population counts” September 2014
- European Conference on Quality in Official Statistics, Vienna, Austria:
“Assessing the accuracy of different models for combining aggregate level administrative data” June 2014
- 36th Annual Research Students’ Conference in Probability, Statistics and Social Statistics, Lancaster, UK:
“Quality measures of population and demographic statistics” March 2013
- I. Ulusal Nufusbilim Kongresi (I. National Population Studies Congress), Ankara, Turkey:
“Differentials in access to reproductive health services: rich and poor” October 2010

THIRD-PARTY
FUNDING

Acquired

- Principal Investigator, Austrian Academy of Sciences Innovation Fund “Research, Science and Society” 2020-2021
- Work package leader, “Future Migration Scenarios for Europe” European Commission Horizon 2020 project 2020-2022
- Joint Office for National Statistics-Economic and Social Research Council Doctoral Training Centre +3 Research Studentship 2012-2015

Under review

- 1000 Ideas Programme, FWF, “Migration intentions and behaviour”

ACADEMIC
ACTIVITIES

- Supervisor in IIASA Young Scientists Summer Program
- Reviewer: Demography, Applied Geography, Population and Environment, Journal of Official Statistics, IUSSP 2021
- Academic counsel for Regional Academy on the United Nations

ADDITIONAL
TRAINING

- Third-Party-Funding Acquisition: Austrian funding landscape, Austrian Academy of Sciences October 2019
- Demographic Applications of Bayesian Models, Max Planck Institute for Demographic Research June 2016
- Hierarchical Modelling of Spatial and Temporal Data, University of Southampton June 2015
- Time Series Analysis, Certificate/Diploma/MSc in Official Statistics, University of Southampton February 2015
- Generating Synthetic Data for Statistical Disclosure Control, ADRC-E, University of Southampton December 2014
- Probabilistic Population Projections: Theory and Practice, Max Planck Institute for Demographic Research November 2014
- Analysis of Linked Datasets, ADRC-E, University of Southampton October 2014
- ADRN Accreditation Training, ADRC-E, University of Southampton June 2014
- Data Linkage: From Theory to Practice, ADRC-E, University of Southampton April 2014
- Applied Multilevel Modelling, S3RI, University of Southampton February 2014
- Introduction to Bayesian Analysis and MCMC, University of Southampton April 2013

TEACHING
EXPERIENCE

Social Statistics and Demography, University of Southampton

Teaching assistant

- Research Methods in the Social Sciences (BSc), Semester 1 2015-16
- Quantitative Methods I (MSc), Semester 1 2015-16
- Introduction to Quantitative Methods (BSc), Semester 2 2014-15
- Quantitative Methods I (intensive) (MSc), Semester 2 2014-15
- Quantitative Methods I (MSc), Semester 2 2014-15
- Research Methods in the Social Sciences (BSc), Semester 1 2014-15

Institute of Population Studies, Hacettepe University

Teaching assistant

- Sampling Techniques (MSc), Semester 2 2010-11
- Social Survey Methodology (MSc), Semester 1 2010-11