

# MMag. Dr. Erich STRIESSNIG

## PERSONAL DATA

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## WORK EXPERIENCE

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<i>Current</i> JAN 2016-	Research Scholar, <i>World Population Program</i> , <i>International Institute for Applied Systems Analysis (IIASA)</i> Main topics: Population Projections; Demographic Metabolism; Mortality Modelling.
<i>Current</i> SEP 2015-	Postdoctoral Researcher, <i>Vienna Institute of Demography (VID)</i> , <i>Austrian Academy of Sciences (ÖAW)</i> Main topics: Attitudes toward Migration; RIAS Refugee Survey.
<i>Current</i> OCT 2015-	Lecturer, <i>Vienna University of Economics and Business (WU)</i> Courses taught: Introduction to Demography; Population History; Demographic Methods
DEC 2017 AUG 2017-	Fulbright Visiting Professor, <i>Climate &amp; Global Dynamics</i> , <i>National Center for Atmospheric Research (NCAR)</i> Main topic: Spatial Projections of Age-Structured Populations.
JAN 2016 JUN 2007-	Research Assistant, <i>World Population Program</i> , IIASA Main topics: Economic Growth, Education and Total Factor Productivity.
AUG 2015 JAN 2013-	Teaching and Research Associate, <i>Institute for Social Policy</i> , WU Main topics: Differential Vulnerability to Climate Change; Optimal Fertility.
DEC 2012 JAN 2011-	Research Assistant, <i>Institute for Human Capital and Development</i> , WU Main topics: Disaster Vulnerability and Education; Happiness and Education.
DEZ 2010 SEP 2008-	Research Assistant, <i>Atmospheric Pollution and Economic Development</i> <i>Program</i> , IIASA, Main topic: Macroeconomic Effects of Reductions in $PM_{2.5}$ Concentrations in South Asia.

## Further Professional Experience

SINCE 2018	Editor VID Working Paper Series
AUG 2017-DEC 2017	Fulbright Botstiber Visiting Professor of Austrian-American Studies in the United States (NCAR)
JAN 2017-MAR 2017	Guest Researcher, NCAR, Boulder, USA

REVIEWER PNAS, PDR, Population Studies, Demographic Research, Vienna Yearbook of Population Research, Journal of Population Research, APA Conference 2018, Nature Sustainability, Regional Environmental Change, Ecology and Society, Earth's Future, Journal of Happiness Studies, Polish Academy of Sciences

## TEACHING EXPERIENCE

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NOV 2017		<i>Population Projections in R</i> Colorado State Demography Office, Denver, USA
OCT 2017		<i>Population Projections in R</i> PhD level, IBS CU Boulder, USA
JUL 2017		<i>Proyecciones de población con el uso del software R</i> PhD level, CIEAP Toluca, Mexico (in Spanish)
WINTER TERM 2017 WINTER TERM 2015-		<i>Concentration Area - Population, Human Capital and Policy II</i> Master's level, WU Vienna
SUMMER TERM 2016 SUMMER TERM 2013-		<i>Concentration Area - Population, Human Capital and Policy I</i> Master's level, WU Vienna
NOV/DEC 2014		<i>Multistate Population Projections in Excel and R</i> PhD level, ISEC Bangalore, India
SUMMER TERM 2014 SUMMER TERM 2013-		<i>Contemporary Global Policy Challenges</i> Master's level, WU Vienna

## Supervision

### Ongoing

-SEP 2016		Tananont Buathong (PhD), <i>Determinants of completed marital fertility and intention in Thailand</i> , Chulalongkorn University (Bangkok, Thailand)
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### Completed

APR 2017		Carina Mistelbauer (MA), <i>Which demographic (and other) factors influence asylum-seekers' return intentions?</i> , WU Vienna
MAR 2017		Krisztina Campbell (MA), <i>Possible future implications of the increasing Hungarian emigration in terms of economic, social and demographic aspects</i> , WU Vienna
NOV 2016		Sarah Block and Olga Sadovici (MA), <i>Syrian Refugees and their potential to reinforce the competitiveness of the Austrian labor market for the medium term future</i> , WU Vienna
SEP 2016		Marina Andrijevic (MA), <i>Less Feet, Less Footprint: The Relationship Between Environmental Concern and Fertility Intentions</i> , WU Vienna
SEP 2016		Agnes Drimmel (MA), <i>The impact of alternative migration on future demographic developments in Austria and Turkey</i> , WU Vienna

APR 2016	Anna Dimitrova (MA), <i>Long-term demographic analysis of Bulgaria</i> , WU Vienna
APR 2016	Elisabeth Riedler (MA), <i>Population Projections for Uganda incorporating novel scenarios on fertility and education</i> , WU Vienna
APR 2015	Mohamed Saad El Jai (MA), <i>Water scarcity in Morocco and its socio economic implications</i> , WU Vienna

## EDUCATION

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JUN 2015	Doctoral Degree in ECONOMICS (Dr. rer. soc.oec.) with distinction, <i>Major: Demography</i>
JAN 2011-	Vienna University of Economics and Business, Austria Thesis title: "Three Effects of Education on Well-Being" Supervisor: Prof. Wolfgang LUTZ
MAR 2010	Dual Master's Degree in ECONOMICS and PHILOSOPHY with distinction
OCT 2002-	University of Vienna, Austria
DEC 2009	Diploma Thesis in PHILOSOPHY Thesis title: "The Fact of Plurality in Post-Secular Societies" Advisor: Prof. Herta NAGL-DOCEKAL
JUN 2007	Diploma Thesis in ECONOMICS "Age Specific Growth Effects of Human Capital Through Technological Diffusion" Advisor: Prof. Jesus CRESPO-CUARESMA
JUL 2006	Exchange Student
SEP 2005-	Carlos III University of Madrid, Spain

## Further Education

MAR 2017	"GIS Workshop for Atmospheric Sciences", NCAR, Boulder, USA
MAR 2017	"Beyond P-Values", NCAR, Boulder, USA
MAY 2016	"Statistical Analysis in the Lexis Diagram: Age-Period-Cohort models", Max Planck Research School for Demography, Germany
FEB 2015	"Spatial Econometrics", WU, Vienna, Austria
OCT 2014	"Agent-based Modeling and Simulation", MPIDR, Rostock, Germany
DEC 2014	"Multilevel Models", WU, Vienna, Austria
MAR 2011	"Demographic Analysis and Computer Application", Center for Population Studies, Chulalongkorn University, Bangkok, Thailand

## RESEARCH SKILLS

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- Demographic Methods: Cohort-component population projections, multi-state population projections, age-period-cohort analysis, survey analysis, spatial analysis
- Data Analysis: Experienced with micro surveys (E/WVS, ESS, DHS, IPUMS...) and macro databases (PWT, UNDP, WDI,...)
- Econometric Modelling: Panel regression analysis, multi-level analysis, multinomial logistic regression, machine learning techniques

## COMPUTER SKILLS

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- Expert Knowledge: R, author of various packages published on CRAN  
Gauss, Stata  
MS Excel (VBA), Word, PowerPoint  
ENDNOTE, Zotero
- Intermediate Knowledge: ArcGIS/QGIS, EViews, SocSim (Microsimulation)  
L<sup>A</sup>T<sub>E</sub>X  
ArcGIS, QGIS

## LANGUAGES

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- GERMAN: Mothertongue  
ENGLISH: Fluent  
SPANISH: Fluent  
ITALIAN: Conversational

## PUBLISHED ARTICLES

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- [1] Isabella Buber-Ennser, Judith Kohlenberger, Bernhard Rengs, Zakarya Al Zalak, Anne Goujon, **Erich Striessnig**, Michaela Potančoková, Richard Gisser, Maria Rita Testa, and Wolfgang Lutz. “Human Capital, Values, and Attitudes of Persons Seeking Refuge in Austria in 2015”. en. In: *PLOS ONE* 11.9 (Sept. 2016). Ed. by Ignacio Correa-Velez, e0163481. ISSN: 1932-6203. DOI: [10.1371/journal.pone.0163481](https://doi.org/10.1371/journal.pone.0163481). URL: <http://dx.plos.org/10.1371/journal.pone.0163481> (visited on 09/27/2016).
- [2] **Erich Striessnig** and Elke Loichinger. “Future differential vulnerability to natural disasters by level of education”. de. In: *Vienna Yearbook of Population Research* 1 (2016), pp. 221–240. ISSN: 1728-4414, 1728-5305. DOI: [10.1553/populationyearbook2015s221](https://doi.org/10.1553/populationyearbook2015s221). URL: <http://hw.oeaw.ac.at?arp=0x00344f57> (visited on 09/21/2016).
- [3] **Erich Striessnig** and Wolfgang Lutz. “Can Below-replacement Fertility be Desirable?”. In: *Empirica* (Mar. 2013). ISSN: 0340-8744, 1573-6911. DOI: [10.1007/s10663-013-9213-3](https://doi.org/10.1007/s10663-013-9213-3). URL: <http://link.springer.com/10.1007/s10663-013-9213-3> (visited on 03/25/2013).
- [4] **Erich Striessnig** and Wolfgang Lutz. “Demographic Strengthening of European Identity”. en. In: *Population and Development Review* 42.2 (June 2016), pp. 305–311. ISSN: 1728-4457. DOI: [10.1111/j.1728-4457.2016.00133.x](https://doi.org/10.1111/j.1728-4457.2016.00133.x). URL: <http://onlinelibrary.wiley.com/doi/10.1111/j.1728-4457.2016.00133.x/abstract> (visited on 06/15/2016).
- [5] **Erich Striessnig** and Wolfgang Lutz. “How does education change the relationship between fertility and age-dependency under environmental constraints? A long-term simulation exercise”. English. In: *Demographic Research*. Special Collection 30 (2014), pp. 465–492. DOI: [10.4054/DemRes.2014.30.16](https://doi.org/10.4054/DemRes.2014.30.16). URL: <http://www.demographic-research.org/Volumes/Vol30/16/>.
- [6] **Erich Striessnig**, Wolfgang Lutz, and Anthony G. Patt. “Effects of Educational Attainment on Climate Risk Vulnerability”. In: *Ecology and Society* 18.1 (2013). DOI: [10.5751/ES-05252-180116](https://doi.org/10.5751/ES-05252-180116). URL: <http://www.ecologyandsociety.org/vol18/iss1/art16/>.
- [7] Anne Goujon, Samir KC, Markus Speringer, Bilal Barakat, Michaela Potancoková, Jakob Eder, **Erich Striessnig**, Ramon Bauer, and Wolfgang Lutz. “A harmonized dataset on global educational attainment between 1970 and 2060 – An analytical window into recent trends and future prospects in human capital development”. In: *Journal of Demographic Economics* 82.3 (Sept. 2016), pp. 315–363. ISSN: 2054-0892, 2054-0906. DOI: [10.1017/dem.2016.10](https://doi.org/10.1017/dem.2016.10). URL: <https://www.cambridge.org/core/journals/journal-of-demographic-economics/article/a-harmonized-dataset-on-global-educational-attainment-between-1970-and-2060-an-analytical-window-into-recent-trends-and-future-prospects-in-human-capital-development/D5540E2C23E4CB89AF08ECD9379B38FD> (visited on 09/15/2016).
- [8] Wolfgang Lutz and **Erich Striessnig**. “Demographic aspects of climate change mitigation and adaptation”. In: *Population Studies* 69.sup1 (Apr. 2015), S69–S76. ISSN: 0032-4728. DOI: [10.1080/00324728.2014.969929](https://doi.org/10.1080/00324728.2014.969929). URL: <http://dx.doi.org/10.1080/00324728.2014.969929> (visited on 04/27/2015).
- [9] Wolfgang Lutz, Raya Muttarak, and **Erich Striessnig**\*. “Universal education is key to enhanced climate adaptation”. en. In: *Science* 346.6213 (Nov. 2014), pp. 1061–1062. ISSN: 0036-8075, 1095-9203. DOI: [10.1126/science.1257975](https://doi.org/10.1126/science.1257975). URL: <http://www.sciencemag.org/content/346/6213/1061> (visited on 11/29/2014).
- [10] Adelheid Pichler and **Erich Striessnig**. “Differential Vulnerability to Hurricanes in Cuba, Haiti, and the Dominican Republic: The Contribution of Education”. en. In: *Ecology and Society* 18.3 (2013). ISSN: 1708-3087. DOI: [10.5751/ES-05774-180331](https://doi.org/10.5751/ES-05774-180331). URL: <http://www.ecologyandsociety.org/vol18/iss3/art31/> (visited on 06/27/2016).
- [11] Warren C. Sanderson, **Erich Striessnig**, Wolfgang Schoepp, and Markus Amann. “The Effects on Well-Being of Investing in Cleaner Air in India”. In: *Environmental Science & Technology* (Oct. 2013). ISSN: 0013-936X. DOI: [10.1021/es402867r](https://doi.org/10.1021/es402867r). URL: <http://pubs.acs.org/doi/abs/10.1021/es402867r> (visited on 11/06/2013).

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\*Equal contribution and authors are listed alphabetically

- [12] Emilio Zagheni, Raya Muttarak, and **Erich Striessnig**\*. “Differential mortality patterns from hydro-meteorological disasters: Evidence from cause-of-death data by age and sex”. de. In: *Vienna Yearbook of Population Research* 1 (2016), pp. 47–70. ISSN: 1728-4414, 1728-5305. DOI: [10.1553/populationyearbook2015s47](https://doi.org/10.1553/populationyearbook2015s47). URL: <http://hw.oeaw.ac.at?arp=0x00344f49> (visited on 09/21/2016).

## BOOK CHAPTERS

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- [13] **Erich Striessnig** and Alexia Fuernkranz-Prskawetz. “Demographie und Gesellschaft”. German. In: *Umwelt und Gesellschaft*. Ed. by Verena Winiwarter. Vienna: Austrian Academy of Sciences, 2018, pp. 85–93. URL: [https://www.oeaw.ac.at/fileadmin/kommissionen/kioes/pdf/Publications/Opinions/KIOES\\_Opinions\\_8.pdf](https://www.oeaw.ac.at/fileadmin/kommissionen/kioes/pdf/Publications/Opinions/KIOES_Opinions_8.pdf).
- [14] Herbert Formayer, Christoph Matulla, and **Erich Striessnig**. “Veränderung der Gesundheitsdeterminanten”. German. In: *APCC Special Report Gesundheit, Demographie und Klimawandel*. Ed. by Willi Haas, Hanns Moshhammer, and Raya Muttarak. Vienna: Austrian Panel on Climate Change (APCC), 2018, pp. 25–100. URL: <http://sr18.ccca.ac.at/download/apcc-sr18-final-report-volltext-de-pre-print/>.
- [15] Samir KC, Wolfgang Lutz, Michaela Potancokova, Guy J Abel, Bilal Barakat, Jakob Eder, Anne Goujon, Sandra Jurasszovich, Tomas Sobotka, Markus Speringer, **Erich Striessnig**, Marcus Wurzer, Dilek Yildiz, Sam Hyun Yoo, and Krystof Zeman. “Approach, methods, and assumptions”. In: *Demographic and human capital scenarios for the 21st century: 2018 assessment for 201 countries*. Ed. by Wolfgang Lutz, Anne Goujon, Samir KC, Marcin Stonawski, and Nikolaos Stilianakis. European Union, 2018.
- [16] Samir KC, Michaela Potančoková, Ramon Bauer, Anne Goujon, and **Erich Striessnig**. “Data and methods”. English. In: *World Population and Human Capital in the 21st Century*. Ed. by Wolfgang Lutz, William P Butz, and Samir KC. Oxford: Oxford University Press, 2014, pp. 434–518. URL: <http://ukcatalogue.oup.com/product/9780198703167.do>.
- [17] Wolfgang Lutz, Stuart Basten, and **Erich Striessnig**. “The Future of Fertility: Future Trends in Family Size Among Low Fertility Populations”. In: *Whither the Child? Causes and Consequences of Low Fertility*. London: Paradigm Publishers, 2012, pp. 205–233.

## WORKING PAPERS

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- [18] **Erich Striessnig**. *Too Educated to be Happy?* English. Interim Report IR-15-015. Laxenburg, Austria: International Institute for Applied Systems Analysis (IIASA), 2015. URL: [http://www.iiasa.ac.at/publication/more\\_IR-15-015.php](http://www.iiasa.ac.at/publication/more_IR-15-015.php).
- [19] **Erich Striessnig** and Jayanta Kumar Bora. *Under-Five Child Growth and Nutrition Status: Spatial Clustering of Indian Districts*. VID Working Paper 03/2019. Tech. rep. 2019.
- [20] **Erich Striessnig** and Wolfgang Lutz. *Demographic Metabolism at Work?* English. Working Paper IR-16-001. Laxenburg, Austria: International Institute for Applied Systems Analysis (IIASA), 2016. URL: <http://pure.iiasa.ac.at/12385/1/WP-16-001.pdf>.
- [21] **Erich Striessnig** and Wolfgang Lutz. *Optimal Fertility*. Interim Report IR-11-031. Laxenburg, Austria: Institution for Applied Systems Analysis, 2011.
- [22] Wolfgang Lutz, Anastasia A. Lijadi, **Erich Striessnig**, Anna Dimitrova, and Melissa Caldeira Brant de Souza Lima. *Years of Good Life (YoGL): A new indicator for assessing sustainable progress*. en. IIASA Working Paper WP-18-007. Laxenburg, Austria: International Institute for Applied Systems Analysis (IIASA), Aug. 2018. URL: <http://pure.iiasa.ac.at/id/eprint/15402/> (visited on 08/03/2018).
- [23] Warren Sanderson and **Erich Striessnig**. *Demography, Education, and the Future of Total Factor Productivity Growth*. Interim Report IR-09-002. Laxenburg, Austria: Inter-

national Institute for Applied Systems Analysis, 2009. URL: <http://www.iasa.ac.at/Admin/PUB/Documents/IR-09-002.pdf> (visited on 10/25/2010).