

## Curriculum Vitæ— Roland Rau

(Last Update: April 18, 2017)

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## 1 Name and Address for Correspondence

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     *Office (1):*  
     University of Rostock  
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## 2 Education

**June 2005:** Ph.D. in Demography with distinction (“Summa Cum Laude”), University of Rostock; Title of Thesis: “Seasonality in Human Mortality. A Demographic Approach”.

**May 2001:** Dipl.-Pol. Univ. (~Master’s Degree) in Political Science (Major), Demography and Statistics (Minors), University of Bamberg. Title of Thesis: “Age-, Period-, and Cohort Effects in Voting Behavior”

**Sep 1997–Jul 1998:** Visiting Student at the “National University of Ireland”, Galway

## 3 Current and Previous Appointments

**since June 2011:** (tenured, full) Professor of Demography at the University of Rostock

**since March 2016:** additional appointment as Max Planck Fellow, 15 March 2016 – 14 March 2021, appointed by the president of the Max Planck Society to head research group on “Mathematical & Actuarial Demography”

**since April 2012:** Chair of the Department of Sociology and Demography

**since November 2011:** additional appointment in the Department “Ageing of Individuals and Society”, Faculty of Interdisciplinary Research

**Jun 2014–May 2015:** Guest Researcher, Research Unit “Epidemiology, Biostatistics & Biodemography”, Institute of Public Health, University of Southern Denmark, Odense, Denmark

**Feb 2014–Mar 2014, Feb 2015–Mar 2015:** Visiting Scholar, Center for Demography & Population Health, Florida State University, USA

**since April 2010:** Fellow, Max Planck International Research Network on Aging (MaxNetAging)

**since July 2009:** Research Fellow, Max Planck Institute for Demographic Research, Rostock

**July 2009–May 2011:** Juniorprofessor (~ Assistant Professor) of Demography at the University of Rostock

**Sep 2008–Jun 2009:** Senior Research Scientist, Max Planck Institute for Demographic Research, Rostock

**Sep 2006–Aug 2008:** Research Scholar, “Population, Policy and Aging Research Center”, Terry Sanford Institute of Public Policy, Duke University, USA

**Jun 2005–Aug 2006:** Research Scientist, Max Planck Institute for Demographic Research, Rostock

**Dec 2002–Jun 2003:** Academic Consultant, German Fulbright Commission, for German Studies Seminar “Challenges of Demographics”

**Jun 2001–May 2005:** Ph.D. student, Max Planck Institute for Demographic Research, Rostock

## 4 Grants

- Rates of Mortality Improvement (ROMI).
  - *Role:* Principal Investigator
  - *Funded by:* European Research Council (ERC Starting Independent Researcher Grant)
  - *Amount:* € 498,600
  - *Time-Frame:* 01 Jan 2011 – 31 Dec 2015
- From Disparities in Mortality Trends to Future Health Challenges (DIMOCHA)
  - *Role:* Cooperating Partner
  - *Funded by:* Deutsche Forschungsgemeinschaft (DFG), Agence Nationale de la Recherche (ANR)
  - *Amount:* € 619,435
  - *Time-Frame:* 01 Jan 2013–31 Dec 2015
- Consultancy for: Online Dossier Demographic Change (in German)
  - *Role:* Consulting Partner
  - *Funded by:* Bundeszentrale für politische Bildung (The Federal Agency for Civic Education)
  - *Amount:* € 9,000
  - *Time-Frame:* 01 Jul 2014 – 30 Sep 2014
- The Rapid Pace of Mortality Convergence in East- and West Germany. The Analysis of a (Quasi-) Natural Experiment in the Social Sciences.
  - *Role:* Principal Investigator
  - *Funded by:* Max Planck International Research Network on Aging
  - *Amount:* € 19,800
  - *Time-Frame:* 01 Sep 2010 – 30 June 2011

## 5 Honors and Prizes

**April 2017:** Best paper award, PNAS, for Colchero et al. (2016): The emergence of longevous populations. *Proceedings of the National Academy of Sciences*, Vol. 113, No. 48, pp. E7681-E7690

**March 2016:** Appointed as Max Planck Fellow by the president of the Max Planck Society (15 Mar 2016 – 14 March 2021)

**May 2015:** Poster Award, Annual Meeting of the Population Association of America, San Diego, USA (for joint poster with Christina Bohk and Joel E. Cohen)

**May 2014:** Poster Award, Annual Meeting of the Population Association of America, Boston, USA (for joint poster with Marcus Ebeling)

**July 2013:** Teaching Award of the University of Rostock

**July 2006:** Otto-Hahn-Medal of the Max Planck Society

## 6 Forthcoming Publications

- CHRISTINA BOHK-EWALD, MARCUS EBELING, ROLAND RAU: Lifespan Disparity as an Additional Indicator for Evaluating Mortality Forecasts. **Demography** (accepted)
- ROLAND RAU, MARCUS EBELING, FREDERIK PETERS, CHRISTINA BOHK-EWALD, TRIFON I. MISSOV: Where is the level of the mortality plateau? (accepted for “Living to 100” monograph of the US Society of Actuaries (SOA))
- ROLAND RAU, JAMES W. VAUPEL: The longevity revolution of the modern era. In: V. Shkolnikov (Ed.) **Demographic Studies on Survival and Health** (in press)
- KARIN MODIG, TOMAS ANDERSSON, JAMES W. VAUPEL, ROLAND RAU, ANDERS AHLBOM: How long do centenarians survive: Average and maximum length of life. **Journal of Internal Medicine** (accepted)
- FERNANDO COLCHERO, ROLAND RAU, ALEXANDER SCHEUERLEIN, BJÖRN SCHWENTKER, JAMES W. VAUPEL: Lifespans becoming more similar. In: **Max Planck Society** (Ed.): Yearbook 2017. (in press)

## 7 Publications

- CHRISTINA BOHK-EWALD AND ROLAND RAU (2017): Probabilistic mortality forecasting with varying age-specific survival improvements. **Genus**, Vol. 73, pp. 1–37
- FERNANDO COLCHERO, ROLAND RAU, OWEN R. JONES, JULIA BARTHOLD, DALIA A. CONDE, ADAM LENART, LASZLO NEMETH, ALEX SCHEUERLEIN, JONAS SCHOELEY, CATALINA TORRES, VIRGINIA ZARULLI, JEANNE ALTMANN, DIANE K. BROCKMAN, ANNE M. BRONIKOWSKI, LINDA M. FEDIGAN, ANNE PUSEY, TARA S. STOINSKI, KAREN B. STRIER, ANNETTE BAUDISCH, SUSAN C. ALBERTS, JAMES W. VAUPEL (2016): The emergence of longevous populations. **Proceedings of the National Academy of Sciences**, Vol. 113, No. 48, pp. E7681-E7690
- RUNE LINDAHL-JACOBSEN, BERNARD JEUNE, ROLAND RAU, VLADIMIR CANUDAS-ROMO, ADAM LENART, KAARE CHRISTENSEN, JAMES W. VAUPEL: The rise, stagnation and rise of Danish women’s life expectancy. **Proceedings of the National Academy of Sciences**, Vol. 113, No. 15, pp. 4015–4020
- CHRISTINA BOHK, ROLAND RAU (2016): Changing mortality patterns and their predictability: The case of the United States. In: Robert Schoen (Ed.): **Dynamic Demographic Analysis**. Springer, Chapter 5, pp. 69–89
- FELIX ZUR NIEDEN, ROLAND RAU, MARC LUY (2016): Allgemeine Sterbetafel 2010/12 — Neue Ansätze zur Glättung und Extrapolation der Sterbewahrscheinlichkeiten **Wirtschaft und Statistik** 1/2016, p. 63–74
- FREDERIK PETERS, CHRISTINA BOHK-EWALD, ROLAND RAU (2015): Future inequalities in life expectancy in England and Wales. **The Lancet (Correspondence)**, Vol. 386, p. 2391
- CHRISTINA BOHK, ROLAND RAU (2015): Impact of Economic Conditions and Crises on Mortality and its Predictability. **Kölner Zeitschrift für Soziologie und Sozialpsychologie**, Vol. 67, pp. 271–294
- CHRISTINA BOHK, ROLAND RAU, JOEL E. COHEN (2015): Taylor’s power law in human mortality **Demographic Research**, Vol. 33, No. 21, pp. 589–610
- ROLAND RAU (2015): Alternative estimates support new findings of Andreev and Kingkade. **Demographic Research**, Electronic Response Letters. Available at [http://www.demographic-research.org/volumes/vol133/13/letter\\_41.pdf](http://www.demographic-research.org/volumes/vol133/13/letter_41.pdf)
- ROLAND RAU (2015), Contributor for demographic keywords. In: Rainer Diaz-Bone, Christoph Weischer (Eds.): **Dictionary of Methods in the Social Sciences** (“Methoden-Lexikon für die Sozialwissenschaften”), Springer

- CHRISTINA BOHK, ROLAND RAU (2014): Mortality forecasts with a flexible age pattern of change for several European countries. In: Marco Marsili, Giorgia Capacci (Eds.): **Proceedings of the Sixth Eurostat/UNECE Work Session on Demographic Projections**. eurostat, UN Economic Commission for Europe, Istat, pp. 360–371
- MAGDALENA M. MUSZYŃSKA AND ROLAND RAU (2014): Did Men Benefit More from Medical Progress in Recent Decades? Cause-of-Death Contributions to the Decreasing Sex-Gap in Life Expectancy in the United States. **Warsaw School of Economics, Institute of Statistics and Demography, Working Paper Nr. 42, 2014** Available Online At: [http://kolegia.sgh.waw.pl/pl/KAE/struktura/ISiD/publikacje/Documents/Working\\_Paper/ISID\\_WP\\_42\\_2014.pdf](http://kolegia.sgh.waw.pl/pl/KAE/struktura/ISiD/publikacje/Documents/Working_Paper/ISID_WP_42_2014.pdf)
- ROLAND RAU (2014): Der demografische Wandel in Deutschland unter besonderer Berücksichtigung der Mortalitätsentwicklung. In: Ärzteversorgung Niedersachsen (Eds.): 50 Jahre Ärzteversorgung Niedersachsen, S. 102–117
- CHRISTINA BOHK, ROLAND RAU (2014): Probabilistic Mortality Forecasting with Varying Age-Specific Survival Improvements. **arXiv.org**, 1311.5380
- ROLAND RAU, JAMES W. VAUPEL (2014): The Changing Demographic Context of Aging. In: Thomas B. Kirkwood, Cary L. Cooper (Eds.) **Wellbeing in Later Life: Wellbeing: A Complete Reference Guide, Volume IV**, pp. 2–21
- ROLAND RAU, MAGDALENA M. MUSZYŃSKA, PAUL H.C. EILERS (2014): Minor Gradient in Mortality by Education at the Highest Ages in the US. An Application of the Extinct-Cohort-Method. **Demographic Research**, Vol. 29, No. 19, pp. 507–520
- ROLAND RAU (2013). Jacob S. Siegel: The Demography and Epidemiology of Human Health and Aging. **European Journal of Population**, Vol. 29, No. 3, pp. 355–356 (Book Review)
- ROLAND RAU, MAGDALENA M. MUSZYŃSKA, JAMES W. VAUPEL (2013): Europe, the Oldest-Old Continent. In: Gerda Neyer, Gunnar Andersson, Hill Kulu, Laura Bernardi, Christoph Bühler (Eds.): **The Demography of Europe**. Springer, pp. 119–137
- JAMES W. VAUPEL, ROLAND RAU (2013): Research vs. Rhetoric. **Gerontology**, Vol. 59: pp. 95–96 (DOI:10.1159/000341227)
- ROLAND RAU (2012): Methusalem bald unter uns? (Methuselah Soon Among Us?) **Neue Zürcher Zeitung — NZZ Fokus**, Issue 51, pp. 90–91 (non-scientific article)
- MAGDALENA M. MUSZYŃSKA, ROLAND RAU (2012): The Old-Age Healthy Dependency Ratio in Europe. **Journal of Population Ageing**, Vol. 5: 151–162
- ROLAND RAU, GABRIELE DOBLHAMMER (2012): Zur Epidemiologie des Sterbens in der deutschen Gesellschaft. Entwicklung von Lebenserwartung, Todesursachen und Pflegebedarf am Lebensende. In: Franz-Josef Bormann, Gian Domenico Borasio (Eds.): **Sterben. Dimensionen eines anthropologischen Grundphänomens**. Berlin/Boston: Walter de Gruyter, pp. 3–22
- KAARE CHRISTENSEN, MICHAEL DAVIDSEN, KNUD JUEL, LAUST MORTENSEN, ROLAND RAU, JAMES W. VAUPEL (2011): The Divergent Life-Expectancy Trends in Denmark and Sweden—and Some Potential Explanations. In: EILEEN M. CRIMMINS, SAMUEL H. PRESTON, BARNEY COHEN (Eds.); Panel on Understanding Divergent Trends in Longevity in High-Income Countries; National Research Council: **International Differences in Mortality at Older Ages: Dimensions and Sources**. Washington D.C.: National Academies Press
- BRIAN D. MARX, PAUL H.C. EILERS, JUTTA GAMPE, ROLAND RAU (2010): Bilinear modulation models for seasonal tables of counts. **Statistics and Computing**, Vol. 20: 191–202.
- KAARE CHRISTENSEN, GABRIELE DOBLHAMMER, ROLAND RAU, JAMES W. VAUPEL (2010): Ageing and health – Authors’ reply. **The Lancet**, Vol. 375, Issue 9708, pp. 26–27
- MAGDALENA M. MUSZYŃSKA, ROLAND RAU (2009): Falling Short of Highest Life Expectancy: How Many Americans Might Have Been Alive in the Twentieth Century? **Population & Development Review**, Vol. 35, No. 3, pp. 585–603

- KAARE CHRISTENSEN, GABRIELE DOBLHAMMER, ROLAND RAU, JAMES W. VAUPEL (2009): Ageing populations: the challenges ahead. **The Lancet**, Vol. 374, Issue 9696, pp. 1196–1208
- DOBLHAMMER, GABRIELE, ROLAND RAU, J. W. VAUPEL (2009): Selbstbestimmtes Leben trotz Zunahme von Krankheiten: Studie zeichnet gemischtes Bild vom Altern. **Demografische Forschung Aus Erster Hand** 6(4), 1–2
- ROLAND RAU, DOMANTAS JASILIONIS, EUGENY L. SOROKO, JAMES W. VAUPEL (2008): Continued Reductions in Mortality at Advanced Ages. **Population & Development Review**, Vol. 34, No. 4: pp. 747–768
- ROLAND RAU, GABRIELE DOBLHAMMER, VLADIMIR CANUDAS-ROMO, ZHANG ZHEN (2008) : Cause-of-Death Contributions to Educational Inequalities in Mortality in Austria between 1981/82 and 1991/92. **European Journal of Population**, Vol. 24, No. 3, pp. 265–286
- PAUL H.C. EILERS, JUTTA GAMPE, BRIAN D. MARX, ROLAND RAU (2008): Modulation Models for Seasonal Incidence Tables. **Statistics in Medicine**, Vol. 27, Issue 17 (30 July 2008), pp. 3430–3441
- JAMES W. VAUPEL, KRISTÍN VON KISTOWSKI, ROLAND RAU (2008): “Mortality”. In STEVEN N. DURLAUF, LAWRENCE E. BLUME (EDS.): **The New Palgrave Dictionary of Economics Vol. 5**, Palgrave Macmillan, pp. 781–787
- DMITRI A. JDANOV, DOMANTAS JASILIONIS, EUGENY SOROKO, ROLAND RAU, JAMES W. VAUPEL (2008): Beyond the Kannisto-Thatcher Database on Old Age Mortality: an assessment of data quality at advanced ages **Max Planck Institute for Demographic Research Working Paper WP-2008-013**, Rostock: Max Planck Institute for Demographic Research.
- BRIAN D. MARX, PAUL H.C. EILERS, JUTTA GAMPE, ROLAND RAU (2008): Bilinear varying-coefficient models for seasonal time series and tables. In: Paul H.C. Eilers (Eds.): **Proceedings of the 23rd International Workshop on Statistical Modelling**, Utrecht 7 - 11 July, 2008, pp. 339–344
- ROLAND RAU (2007): **Seasonality in Human Mortality. A Demographic Approach**. Demographic Research Monographs Series, Heidelberg: Springer
- PAUL H.C. EILERS, JUTTA GAMPE, BRIAN D. MARX, ROLAND RAU (2007): Modulation Models for Seasonal Incidence Tables In: **Proceedings of the 22nd International Workshop on Statistical Modelling**, July 2–July 6, 2007, Barcelona
- JAMES W. VAUPEL, ROLAND RAU, DOMANTAS JASILIONIS (2006): The Remarkable, Accelerating Decline in Mortality at Older Ages and the Prospects for Further Improvement in Life Expectancy. **Biochimica Clinica**, Vol. 30, Supplement No. 1. Luca Deina, James Vaupel (Eds.): Longevity in Sardinia “The centenarian island”, pp. S4–S5
- JAMES W. VAUPEL, ROLAND RAU (2006): Mortality after Age 80 in France. In: France Meslé and Thérèse Locoh (Eds.): **Vie des populations, santé des humains. Population Life, Human Health. Festschrift in Honour of Jacques Vallin**
- ROLAND RAU, EUGENY SOROKO, DOMANTAS JASILIONIS, JAMES W. VAUPEL (2006): 10 Years after Kannisto: Further Evidence for Mortality Decline at Advanced Ages in Developed Countries **Max Planck Institute for Demographic Research Working Paper WP-2006-33**, Rostock: Max Planck Institute for Demographic Research.
- JAMES W. VAUPEL, ROLAND RAU, CARLO GIOVANNI CAMARDA, KRISTÍN VON KISTOWSKI (2006): Can Heterogeneity of Populations Explain Differences in Mortality? **Center for Retirement Research at Boston College Working Paper WP #2006-10**, Center for Retirement Research, Boston College, Chestnut Hill, MA (USA).
- GABRIELE DOBLHAMMER, ROLAND RAU, JOSEF KYTIR (2005): Trends in educational and occupational differentials in all-cause mortality in Austria between 1981/82 and 1991/92. **Wiener klinische Wochenschrift. The Middle European Journal of Medicine**, Vol. 117, Issue 13–14, pp. 468–479

- ROLAND RAU (2004): Winter mortality in elderly people in Britain: Lack of social gradient in winter excess mortality is obvious in Denmark (Letters). **British Medical Journal**, Vol. 329, pp. 976–977
- JUTTA GAMPE, ROLAND RAU (2004): Seasonal Variation in Death Counts: *P*-Spline Smoothing in the Presence of Overdispersion. In: ANNIBALE BIGGER, EMANUELA DREASSI, CORRADO LAGAZIO, MARCO MARCHI (EDS.): **Statistical Modelling. Proceedings of the 19th International Workshop on Statistical Modelling, Florence (Italy), 4–8 July 2004**, Firenze, I: Firenze University Press, pp. 405–409
- ROLAND RAU, GABRIELE DOBLHAMMER (2003): Seasonal mortality in Denmark: The role of sex and age. **Demographic Research**, Vol. 9, pp. 197–222
- ROLAND RAU, GABRIELE DOBLHAMMER (2003): Seasonal mortality in Denmark: The role of sex and age. **Max Planck Institute for Demographic Research Working Paper WP–2003-14**, Rostock: Max Planck Institute for Demographic Research
- GABRIELE DOBLHAMMER, JOSEPH LEE RODGERS, ROLAND RAU (2000): Seasonality of Birth in Nineteenth- and Twentieth-Century Austria. **Social Biology**, Vol. 47, pp. 201–217
- ROLAND RAU (2000): **Alters-, Perioden-, und Kohorteneffekte im Wahlverhalten**. Diploma-Thesis, Lehrstuhl für Politikwissenschaft II, Universität Bamberg, July 2000
- HARALD W. LEDERER, ROLAND RAU, STEFAN RÜHL (1999): **Migration Review 1999. Migration in- and outflows to and from Germany**. Bamberg: efms (CD-ROM)
- GABRIELE DOBLHAMMER, JOSEPH LEE RODGERS, ROLAND RAU (1999): Seasonality of Birth in nineteenth and twentieth century Austria: steps toward a unified theory of human reproductive seasonality. **Max Planck Institute for Demographic Research Working Paper WP–1999–013**, Rostock: Max Planck Institute for Demographic Research
- HARALD W. LEDERER, ROLAND RAU, STEFAN RÜHL (1999): **Migrationsbericht 1999. Zu- und Abwanderung nach und aus Deutschland**. Bonn / Berlin: Beauftragte der Bundesregierung für Ausländerfragen

## 8 Software

- “ROMIplot”, extension package for R. Authors: Roland Rau, Tim Riffe; first published in 2015. License: GPL-2. **Language: R**.
- “LogrankA”, extension package for R. Authors: Jonas Richter-Dumke, Roland Rau; first published in 2013. License: GPL-2. **Language: R**.
- “npst”, extension package for R; this package generalizes Hewitt’s (1971) test for seasonality and Rogerson’s (1996) extension based on Monte-Carlo simulation; first release in 2011. GPL-2. **Languages: R, Fortran 90/95**.
- minor contribution to statistical programming package “ESS” for the Emacs family of editors; license: GPL-2 or later. **Language: Emacs-Lisp**
- “Miney”, extension package for R; this package implements the core idea of games known as ‘Minesweeper’ on Microsoft Windows or ‘KMines’ for KDE on Unix-like operating systems; first release in 2010; license: GPL-2. **Language: R**.

## 9 Presentations of Papers and Posters

- ROLAND RAU, MARCUS EBELING, FREDERIK PETERS, CHRISTINA BOHK-EWALD, TRIFON I. MISSOV (2017): Where is the level of the mortality plateau? Conference “**Living to 100**”, **Society of Actuaries**, Orlando, FL, USA, 04 January 2017

- ROLAND RAU (2016): Sterblichkeit und Alterung aus demographischer Perspektive (In German. Mortality and aging from a demographic perspective). **ERMUR**, Rostock, Germany, 10 November 2016.
- ROLAND RAU (2016): “Current advances in mortality forecasting” Invited keynote address at workshop “Improving Mortality Forecast” of the **EAPS Health, Morbidity and Mortality Working Group**, Mainz, Germany, 31 August 2016
- FREDERIK PETERS, MARCUS EBELING, ROLAND RAU, CHRISTINA BOHK-EWALD (2016) The alterability of mortality risk factors over time. Presented in Session 15 “Longevity advances and their determinants”, **European Population Conference**, Mainz, Germany, 01 September 2016
- RONNY WESTERMAN, FREDERIK PETERS, ROLAND RAU (2016): Is a rise in the prevalence of chronic conditions and infectious deaths an inevitable consequence of better survival? Exploring variations in the prevalence of renal replacement therapy, sepsis mortality and life expectancy in Europe, 2001–2011. Presented in Session 35 “Survival: Exploring biological and confounding factors”, **European Population Conference**, Mainz, Germany, 01 September 2016
- CHRISTINA BOHK, MARCUS EBELING, ROLAND RAU (2016): Complementing the Evaluation Toolkit of Mortality Forecasts with Measures of Lifespan Disparity. Presented in Session 66 “Forecasting mortality”, **European Population Conference**, Mainz, Germany, 02 September 2016
- FREDERIK PETERS, MARCUS EBELING, ROLAND RAU, CHRISTINA BOHK-EWALD: Wie hat sich der Einfluss von Risikofaktoren auf die Sterblichkeit über die Zeit verändert? **Annual Meeting of the German Demographic Society (DGD)**, Leipzig, 09 March 2016
- CHRISTINA BOHK-EWALD, MARCUS EBELING, ROLAND RAU Evaluation von Mortalitätsprognosen unter Berücksichtigung der Streuung im Sterbealter. **Annual Meeting of the German Demographic Society (DGD)**, Leipzig, 09 March 2016
- CHRISTINA BOHK, MARCUS EBELING, ROLAND RAU: Complementing the Evaluation Toolkit of Mortality Forecasts with Measures of Lifespan Disparity. Paper presented in Session 37 “Statistical Demography: Innovative Approaches to Life Expectancy and Mortality” at the **Annual Meeting of the Population Association of America**, Washington DC, USA, 31 March 2016
- ROLAND RAU (2015): Variability in the Age at Death. FORTE Network Meeting, Örenäs Castle, Glömslöv, Sweden, 17 Sep 2015 (organized by **Lund University & Karolinska Institute**)
- ROLAND RAU (2015): Why is it important to determine the cause of death among the oldest-old? Presentation at kick-off meeting of the “Mortality Follow-Up” of the **German National Cohort Study**, Wiesbaden, Germany, 21 July 2015
- CARL P. SCHMERTMANN, ROLAND RAU (2015): Stationary Fertility Trajectories and Population Momentum under Continually Falling Mortality. Paper presented in Session 202 “Dynamic Models in Demography” at the **Annual Meeting of the Population Association of America**, San Diego, USA, 02 May 2015
- CHRISTINA BOHK, ROLAND RAU, JOEL E. COHEN (2015): Evaluating Mortality Forecasts Using Taylor’s Power Law. Poster presented Session 2 “Data and Methods/ Applied Demography/ Spatial Demography/ Demography of Crime” at the **Annual Meeting of the Population Association of America**, San Diego, USA, 30 April 2015
- CHRISTINA BOHK, ROLAND RAU (2015): Forecasting Period and Cohort Mortality Trends. Poster presented Session 5 “Adult Health and Mortality” at the **Annual Meeting of the Population Association of America**, San Diego, USA, 1 May 2015
- MARCUS EBELING, MARIE-PIER BERGERON-BOUCHER, ROLAND RAU, ANNETTE BAUDISCH (2015): Pace and Shape of Causes of Death. Poster presented Session 5 “Adult Health and Mortality” at the **Annual Meeting of the Population Association of America**, San Diego, USA, 1 May 2015
- ROLAND RAU (2015): Challenges to Forecast Mortality. 10th Anniversary “Rostock Center for Demographic Change”, Berlin, 12 Jan 2015



- ROLAND RAU (2014): Der demografische Wandel in Deutschland unter besonderer Berücksichtigung der Mortalitätsentwicklung. **Ärzteversorgung Niedersachsen**, Hannover, Germany, 30 July 2014
- ROLAND RAU (2014): Fachkräftebedarf und Demographischer Wandel (in German: Demand for Qualified Workers and Demographic Change). **Sächsische Aufbaubank**, Dresden, 20 June 2014
- CHRISTINA BOHK, ROLAND RAU (2014): Dynamic Forecast of Irregular Mortality Developments within a Bayesian Framework. Presented in Session 90 “New methodological approaches to demographic forecasts and projections” at the **European Population Conference**, Budapest, Hungary, 27 June 2014
- ROLAND RAU, CHRISTINA BOHK, MAGDALENA MUSZYŃSKA, JAMES W. VAUPEL (2014): Visualizing Mortality Dynamics for Causes of Death. Presented in Session 56 “Demographic concepts and indicators” at the **European Population Conference**, Budapest, Hungary, 27 June 2014
- CHRISTINA BOHK, ROLAND RAU (2014): Dynamic Forecast of US Life Expectancy at Birth within a Bayesian Framework. Paper presented in Session 422 “Forecasting USA Mortality: Methods and New Findings” at the **Annual Meeting of the Population Association of America**, Boston, USA, 1–3 May 2014
- ROLAND RAU, CHRISTINA BOHK, MAGDALENA MUSZYŃSKA, JAMES W. VAUPEL (2014): Visualizing Mortality Dynamics for Causes of Death in the United States. Poster presented in Session 9 “Data and Methods” at the **Annual Meeting of the Population Association of America**, Boston, USA, 1–3 May 2014
- MARCUS EBELING, ROLAND RAU (2014): Old-Age Mortality, the Maximum Life-Span and Their Influence on Variability of Death and the Rectangularization of the Survival Function. Poster presented Session 9 “Data and Methods” at the **Annual Meeting of the Population Association of America**, Boston, USA, 1–3 May 2014
- ROLAND RAU (2014): We are getting older and older — why? And for how long? (in German). Forum für Verantwortliche Aktuarien, **GenRe Reinsurance**, Cologne, Germany, 25 March 2014
- ROLAND RAU (2014): Visualizing Mortality Dynamics. “Brown-Bag Lunch Seminar”, Center for Demography & Population Health, **Florida State University**, 20 March 2014
- ROLAND RAU (2014): “Weniger, Älter, Ärmer?” (in German, “Less, Older, Poorer?”) Public Panel Discussion, organized by the **Konrad-Adenauer-Foundation**, jointly with Prof. Georg Milbradt, Hamburg, Germany, 21 January 2014
- CHRISTINA BOHK, ROLAND RAU (2013): Bayesian Mortality Forecasts with a Flexible Age Pattern of Change for Several European Countries. “Work Session on Demographic Projections”, organized by the United Nations Economic Commission for Europe, and the Census Bureau of Italy (Istat), Rome, Italy, 30 October 2013
- ROLAND RAU, CHRISTINA BOHK, MAGDALENA M. MUSZYŃSKA, JAMES W. VAUPEL (2013): Visual Explanations for Diverging Mortality Trends in High-Income Countries. Accepted in Session 03-01: “Multiple faces of the health transition” at the **XXVII IUSSP International Population Conference**, Busan, South Korea, August 2013
- CHRISTINA BOHK, ROLAND RAU (2013): Simultaneous Modeling of Heterogeneous Subpopulations within one Framework. Accepted in Session 17-07: “Advances in population projections” at the **XXVII IUSSP International Population Conference**, Busan, South Korea, August 2013
- MARCUS EBELING, ROLAND RAU, ANNETTE BAUDISCH (2013): The Maximized Inner Rectangle Approach (MIRA) – Disentangling Rectangularization. Accepted in Session 17-06-01: “Advances in life table analysis” at the **XXVII IUSSP International Population Conference**, Busan, South Korea, August 2013

- MAGDALENA M. MUSZYŃSKA, ROLAND RAU (2013): The effect of early-life exposure to waterborne diseases on old-age mortality in the United States. Accepted in Session Session 03-11: “The impact of health interventions and programmes on mortality” at the **XXVII IUSSP International Population Conference**, Busan, South Korea, August 2013
- ROLAND RAU (2013): Ursachen hoher Lebenserwartung und Langlebigkeit. (Causes of High Life Expectancy and Longevity) **Statistik-Tage Bamberg-Fürth 2013. Ursachen und Folgen des demographischen Wandels**, 25–26 July 2013
- ROLAND RAU (2013): Medizintechnologie — Die Grundlage unseres langen Lebens? (Medical Technology — The Basis for Longer Lives?) Debate with Prof. Dr. Katrin Sternberg at **Denkwerkstatt Demografie**, Berlin, Germany, 28 May 2013
- ROLAND RAU, CHRISTINA BOHK, MAGDALENA M. MUSZYŃSKA, JAMES W. VAUPEL (2013): Rates of Mortality Improvement on the Lexis Surface. Visualizing Age-, Period- and Cohort-Effects. Accepted in Session 87 “Age, Period, Cohort Trends in Health and Mortality” at the Annual Meeting of the **Population Association of America**, New Orleans, USA, 11 April 2013
- CHRISTINA BOHK, ROLAND RAU (2013): Correlatedness of Mortality Assumptions in a Probabilistic Population Projection Model. Accepted in Poster Session 9 at the Annual Meeting of the **Population Association of America**, New Orleans, USA, 13 April 2013
- ROLAND RAU (2013): Oldest-Old Mortality — Germany in International Context. **Annual Meeting of the German Demographic Society** (“DGD Jahrestagung”), Berlin, Germany, 06 March 2013 (in German)
- CHRISTINA BOHK, ROLAND EWALD, ROLAND RAU (2012): Towards a Generalized Subpopulation Support for Stochastic Population Projections. Poster Presented at **Winter Simulation Conference**, Berlin, Germany, December 2012
- ROLAND RAU (2012): Mortality crossovers: a simple model to disentangle “real” effects from compositional effects. Paper presented in Session 48 “Measures of Mortality” at the **European Population Conference**, Stockholm, 15 June 2012
- CHRISTINA BOHK, ROLAND RAU (2012): Analyzing the impact of mortality assumptions on projection outcome with the Probabilistic Population Projection Model. Paper presented in Session 75 “Projections and population models” at the **European Population Conference**, Stockholm, 15 June 2012
- CHRISTINA BOHK, ROLAND RAU (2012): Why Probabilistic Population Projections Can Hardly Be Evaluated. Poster presented at the Annual Meeting of the **Population Association of America**, San Francisco, USA, 04 May 2012
- ROLAND RAU, GABRIELE DOBLHAMMER (2011): Zur Epidemiologie des Sterbens in der deutschen Gesellschaft: Entwicklung von Lebenserwartung, Todesursachen und Pflegebedarf am Lebensende. Presentation given at the **Department of Oncology, University of Rostock**, 01 November 2011
- ROLAND RAU (2011): Socioeconomic mortality differences at the highest ages. Invited Talk at **GenRe Reinsurance**, Cologne, Germany, 22 September 2011
- ROLAND RAU (2011): Monitoring of Demographic Trends — Useful Indicators. Invited talk in Session “Demografische Indikatoren zwischen Anspruch und Wirklichkeit” at **Deutsche Statistische Woche**, Leipzig, Germany, 21 September 2011 (in German)
- CHRISTINA BOHK, ROLAND RAU (2011) Capturing Future Mortality’s Uncertainty in the Probabilistic Population Projection Model. Presented at: Workshop “Working Group on Health, Morbidity and Mortality” of the **European Association for Population Studies**, Vienna, Austria, 01/02 September 2011
- ROLAND RAU, JUTTA GAMPE, PAUL EILERS, BRIAN D. MARX: Socioeconomic differences in seasonal mortality in the United States. Presented at **Population Association of America (PAA) 2011 Annual Meeting**, Washington D.C., United States, 01 April 2011

- ROLAND RAU, JAMES W. VAUPEL, ROBERT BEISE: Longer Lives at Older Ages. Presented at **Population Association of America (PAA) 2011 Annual Meeting**, Washington D.C., United States, 31 March 2011
- ROLAND RAU (2010): Socioeconomic Mortality Differences at the Highest Ages. Invited Talk at **Department of Sociology, University of Western Ontario, London, Canada**, 13 December 2010
- ROLAND RAU (2010): Datenqualität und erste empirische Survivalanalysen des DDR-Krebsregisters für das Gebiet des heutigen Mecklenburg-Vorpommerns, **Rostocker Gespräche: Relative Survival in Abhängigkeit von Krebslokalisationen**, 18 November 2010 (in German, engl. translation: Data Quality and First Empirical Survival Analyses of the GDR Cancer Registry for the state of Mecklenburg-Vorpommern)
- ROLAND RAU (2010): The Life Expectancy Revolution and Its Consequences. Invited Talk at **GenRe Reinsurance**, Cologne, Germany, 28 September 2010
- ROLAND RAU, MAGDALENA M. MUSZYŃSKA (2010): Socioeconomic mortality differentials at ages 95 and higher in the United States. An application of the extinct-cohort method. **European Population Conference**, Vienna, Austria, 03 September 2010
- MAGDALENA M. MUSZYŃSKA, YEONYOO YI, ROLAND RAU (2010): Old-age health dependency ratio in Europe. **European Population Conference**, Vienna, Austria, 03 September 2010 (Poster Presentation)
- ROLAND RAU, MAGDALENA M. MUSZYŃSKA, JAMES W. VAUPEL (2010): Visualizing Mortality Change. Presented at: **IUSSP Workshop, "The Revolution of Life Expectancy"**, Rostock, Germany, 12 May 2010
- ROLAND RAU, MAGDALENA M. MUSZYŃSKA, JAMES W. VAUPEL, ANNETTE BAUDISCH (2010): The Age of Mortality Deceleration. Presented at: **IUSSP Workshop, "The Revolution of Life Expectancy"**, Rostock, Germany, 12 May 2010
- ROLAND RAU, MAGDALENA M. MUSZYŃSKA (2010): Period or Cohort Effects? Surfaces of Average Annual Improvements in Mortality. Presented at **Population Association of America (PAA) 2010 Annual Meeting**, Dallas, United States, 16 April 2010 (Poster Presentation)
- MAGDALENA M. MUSZYŃSKA, YEONYOO YI, ROLAND RAU (2010): Old-age health dependency ratio in Europe. Presented at **Population Association of America (PAA) 2010 Annual Meeting**, Dallas, United States, 15 April 2010
- ROLAND RAU, MAGDALENA M. MUSZYŃSKA (2010): Do socioeconomic mortality differentials still exist at ages 95 and higher? An application of the extinct-cohort method using data for the United States. Annual Meeting of the **Germany Society for Demography** (Deutsche Gesellschaft für Demographie), Rostock, Germany, 03 March 2010
- ROLAND RAU, MAGDALENA M. MUSZYŃSKA, JAMES W. VAUPEL, ANNETTE BAUDISCH (2009): New Ways to Look at Mortality Deceleration. Presented at: **IUSSP, XXVI International Population Conference**. Marrakech, Morocco, 01 October 2009
- MAGDALENA M. MUSZYŃSKA, ROLAND RAU: Cause-of-death contributions to the female-male gap in mortality in the United States. Presented at:
  - **IUSSP, XXVI International Population Conference**. Marrakech, Morocco, 30 September 2009
  - **Population Association of America (PAA) 2009 Annual Meeting**, Detroit, United States, 30 April 2009 (Poster Presentation)
  - **SUDA Demographic Kolloquium**, Stockholm University, Stockholm, Sweden, 13 November 2008
- ROLAND RAU, MAGDALENA M. MUSZYŃSKA, JAMES W. VAUPEL, ANNETTE BAUDISCH (2009): At What Age Does Mortality Start To Decelerate? Presented at:

- **Population Association of America (PAA) 2009 Annual Meeting**, Detroit, United States, 01 May 2009
- **Demography Seminar**, Center for Economic Demography, Lund University, Sweden, 05 March 2009 (invited talk)
- ROLAND RAU (2009): Werden wir immer noch älter? Invited talk at the Press Colloquium of the **German Insurance Association (GDV)**, Berlin, Germany, 25 March 2009 (invited talk)
- ROLAND RAU (2009): Die Entwicklung der Langlebigkeit. Invited talk at the 4th Colloquium “Aufbruch in die Biometrie – Langlebigkeit und Invalidität aus gesetzlicher und privater Sicht” at **Deutsche Rückversicherung AG**, Düsseldorf, Germany, 05 February 2009 (invited talk)
- MAGDALENA M. MUSZYŃSKA, ROLAND RAU (2008): Trends in the Male-Female Life Expectancy Gap in the United States in the Second Half of the XXth Century. Paper presented for Session 560 “Sex Differentials” at: **European Population Conference** Barcelona, Spain, 09–12 July 2008
- ROLAND RAU (2008): Deceleration in Age-Related Mortality Increase: An Analysis by Cause of Death for the United States and an International Comparison for the Oldest-Old. Paper accepted in Session 554 “Longevity” at: **European Population Conference** Barcelona, Spain, 09–12 July 2008
- BRIAN D. MARX, PAUL H.C. EILERS, JUTTA GAMPE, ROLAND RAU (2008): Bilinear Varying-Coefficient Models for Seasonal Time Series and Tables. Presented at Workshop: **23rd International Workshop on Statistical Modelling**, Utrecht, The Netherlands, 7-11 July 2008
- ROLAND RAU, MAGDALENA M. MUSZYŃSKA (2008): Patterns of Mortality Change in Developed Countries. Presented at Workshop: “Early-life vs. later-life effects on late-life mortality”, organized by the **Max Planck Institute for Demographic Research**, Taormina, Italy, 03 June 2008
- MAGDALENA M. MUSZYŃSKA, ROLAND RAU (2008): How Many Americans Could Be Alive? Paper Presented at: **Population Association of America (PAA) 2008 Annual Meeting**, New Orleans, United States, 19 April 2008
- ROLAND RAU, MARLEEN DETTMANN (2008): Can changing Patterns in smoking Prevalence among Women and Men explain the narrowing Gender Gap in Life Expectancy? A cross-national Perspective. Paper Presented at:
  - **Population Association of America (PAA) 2008 Annual Meeting**, New Orleans, United States, 19 April 2008
  - Workshop: “Early-life vs. later-life effects on late-life mortality”, organized by the **Max Planck Institute for Demographic Research**, Taormina, Italy, 03 June 2008
- MAGDALENA M. MUSZYŃSKA, ROLAND RAU (2008): Cause-of-Death Contributions to the Female-Male Gap in Mortality in the United States. Presented at: **Duke Population Research Institute (DuPRI) Colloquium**, Duke University, Durham, USA, 06 February 2008
- MAGDALENA M. MUSZYŃSKA, ROLAND RAU (2007): How Many Americans Could Be Alive? Presented at: Workshop “Individual, Area and Group Variation in Morbidity and Mortality” of the “Working Group on Health, Morbidity and Mortality” of the **European Association for Population Studies**, Rome, Italy, 17 September 2007
- ROLAND RAU, MARLEEN DETTMANN (2007): The Impact of Smoking on Gender Specific Life Expectancy Differentials: A Cross-National Perspective. Presented at: Workshop “Individual, Area and Group Variation in Morbidity and Mortality” of the “Working Group on Health, Morbidity and Mortality” of the **European Association for Population Studies**, Rome, Italy, 17 September 2007
- PAUL H.C. EILERS, JUTTA GAMPE, BRIAN D. MARX, ROLAND RAU (2007): Modulation Models for Seasonal Incidence Tables. Presented at: **International Workshop on Statistical Modelling**, Barcelona, Spain, 06 July 2007

- ROLAND RAU, JUTTA GAMPE, PAUL H.C. EILERS, BRIAN D. MARX (2007): Modeling Seasonal Effects on the Lexis Surface. Presented at: **Population Association of America (PAA) 2007 Annual Meeting**, New York City, United States, 30 March 2007
- ROLAND RAU (2006): Kannisto's Legacy: Recent Developments in Oldest-Old Mortality. Presented at: **Duke Population Research Institute (DuPRI) Colloquium**, Duke University, Durham, USA, 30 November 2006
- ROLAND RAU (2006): NPST: A generalized non-parametric seasonality test. Presented at: **European Population Conference**, Liverpool, United Kingdom, 24 June 2006
- ROLAND RAU, GABRIELE DOBLHAMER, VLADIMIR CANUDAS-ROMO, ZHANG ZHEN (2006): Which causes of death contribute to the widening gap in socioeconomic inequalities in Austrian adult mortality? Presented at: **European Population Conference**, Liverpool, United Kingdom, 23 June 2006
- ROLAND RAU, GABRIELE DOBLHAMER, VLADIMIR CANUDAS-ROMO, ZHANG ZHEN (2006): Socioeconomic Mortality Differentials in Austria. Presented at: **Rostock Demographic Colloquium**, Rostock, Germany, 23 May 2006
- ROLAND RAU, GABRIELE DOBLHAMER, VLADIMIR CANUDAS-ROMO, ZHANG ZHEN (2006): Which Causes of Death Contribute to the Widening Gap in Socioeconomic Inequalities in Austrian Adult Mortality? Presented at: **PAA 2006 Annual Meeting**, Los Angeles, United States, 31 March 2006
- ROLAND RAU, EUGENY SOROKO, DOMANTAS JASILIONIS, JAMES W. VAUPEL (2006): 10 Years after Kannisto: Further Evidence for Mortality Decline at Advanced Ages in Developed Countries. Presented at:
  - **PAA 2006 Annual Meeting**, Los Angeles, United States, 30 March 2006
  - **RTN Workshop "Mortality Trends, Longevity, and Population Ageing"**, Fiesole, Italy, 13 January 2006
- JAMES W. VAUPEL, ROLAND RAU (2005): The Plasticity of Longevity. Presented at: **"Age and Ageing: Just the Concern of the Old?"** at Goodenough College, London, UK. Debate Session "Are there limits to human longevity?" with Dr. Richard Faragher (University of Brighton) and with Dr. Aubrey de Grey (University of Cambridge), 03 December 2005
- ROLAND RAU, JUTTA GAMPE (2005): The influence of socio-demographic factors and region on seasonal mortality in the United States Presented at: **IUSSP, XXV International Population Conference**. Tours, France, 18–23 July 2005
- GABRIELE DOBLHAMMER, ROLAND RAU, JOSEF KYTIR (2005): Gender specific trends in socioeconomic differentials in all-cause mortality in Austria between 1981/82 and 1991/92. Presented at: **IUSSP, XXV International Population Conference**. Tours, France, 18–23 July 2005
- ROLAND RAU, GABRIELE DOBLHAMMER (2005): Widening socioeconomic inequalities in Austrian mortality. Which causes of death contribute to the increasing gap? Presented at:
  - **Warsaw School of Economics** Research Seminar on Demography. Warsaw, Poland, June 2005
  - **RTN Workshop** on Differential Mortality and Causes of Death. Alghero, Sardinia, Italy, May 2005
- ROLAND RAU (2005): The impact of socio-demographic factors on excess winter mortality in Denmark — a register data analysis. Presentation at: **15<sup>th</sup> Nordic Demographic Symposium**, Aalborg University, Aalborg, Denmark, 28–30 April 2005
- ROLAND RAU (2004): Lack of Social Gradient in Excess Winter Mortality in Denmark. A Register Based Study. Presentation at Workshop: **Nordic Population Research at Statistics Sweden and Max Planck Institute for Demographic Research, Rostock**, Max Planck Institute for Demographic Research, Rostock, Germany, 25–26 November 2004

- JUTTA GAMPE, ROLAND RAU (2004): Seasonal Variation in Death Counts: *P*-Spline Smoothing in the Presence of Overdispersion. Poster presented at the 19<sup>th</sup> **International Workshop on Statistical Modelling**, Florence, Italy, July 2004
- ROLAND RAU (2003): Seasonality in Mortality. Presentation during Lecture Series “New Directions in Mortality Research”, **International Max Planck Research School for Demography**, Rostock, Germany
- ROLAND RAU, JUTTA GAMPE (2003): Seasonal Mortality in the United States 1959–1998. Paper presented at the Annual Meeting of the **Social Science History Association**, Baltimore, United States, November 2003
- ROLAND RAU, GABRIELE DOBLHAMMER (2003): *Seasonal Mortality in Denmark. The Role of Sex and Age*. Paper presented at the **European Population Conference**, Warsaw, Poland, August 2003
- JUTTA GAMPE, ROLAND RAU (2003): Trends in saisonalen Mortalitätsschwankungen — eine Analyse mittels *P*-Splines. Paper presented at the **Deutsche Statistische Woche**, Potsdam, Germany, August 2003
- ROLAND RAU, GABRIELE DOBLHAMMER (2003): *Seasonal Mortality in Denmark. The Role of Sex and Age*. Poster presented at the Annual Meeting of the **Population Association of America**, Minneapolis, MN, May 2003
- ROLAND RAU (2002): *Historical trends in seasonal mortality before 1970—a review of literature*. Paper presented at the Workshop “Seasonality in Mortality”. **Duke University**, United States, March 2002
- GABRIELE DOBLHAMMER, ROLAND RAU (2002): *Seasonality in Mortality over Age and Period*, Paper presented at the Workshop “Seasonality in Mortality”. **Duke University**, United States, March 2002
- ROLAND RAU (2001): *Alters-, Perioden-, und Kohorteneffekte im Wahlverhalten*. Paper presented at **Infratest**, Munich, Germany, March 2001

## 10 Professional Activities

### 10.1 Reviewer for Funding Agencies

- Alexander von Humboldt Foundation
- Czech Science Foundation (GAČR)
- European Research Council
- fwf, Austria (Fonds zur Förderung der wissenschaftlichen Forschung)
- German-Israeli Foundation for Scientific Research and Development
- Israel Science Foundation

### 10.2 Reviewer for Journals

- Advances in Life Course Research
- BMC Public Health
- British Medical Journal
- Canadian Studies in Population
- Comparative Population Studies (successor to “Zeitschrift für Bevölkerungswissenschaft”)
- Demographic Research

- Demographic Research Monographs (Springer)
- Demography
- European Journal of Epidemiology
- European Journal of Population
- Genus
- Human Biology
- International Journal of Epidemiology
- Journal of Applied Mathematics and Computing
- Journal of Epidemiology and Community Health
- Journal of Internal Medicine
- Journal of Population Ageing
- Mechanisms of Ageing and Development
- Naturwissenschaften
- Population & Development Review
- Population Studies
- PLOS ONE
- Social Science & Medicine
- Statistische Nachrichten of Statistics Austria
- Vienna Yearbook of Population Research

### 10.3 Further Academic Service

- Chair of Working Group “Demographic Methods”, German Demographic Society (DGD, since Spring 2016, jointly with Dr. Frederik Peters)
- Associate Editor for European Journal of Population (since May 2015)
- Committee Member for Selecting Head of Independent Research Group, Max Planck Society (August 2014)
- Member of Admissions/Selection Committee, European Doctoral School of Demography (2013–2015)
- Member of Editorial Board, Journal Genus (since spring 2010)
- Member of Scientific Board, European Doctoral School of Demography (since January 2010)
- Fellow, Rostock Center for the Study of Demographic Change (since 2010)

### 10.4 Professional Affiliations

- International Union for the Scientific Study of Population (IUSSP)
- Population Association of America (PAA)
- European Association for Population Studies (EAPS)
- Member of the EAPS “Working Group on Health, Morbidity and Mortality”
- Supporting Member: The R Project for Statistical Computing
- Associate Member: Free Software Foundation (FSF)

## 10.5 Other

- Chair of Session “Population Growth as a Non-Topic in the SDGs — What are the Implications?” during the Symposium “Sustainable Development Goals and the Role of Research — A Focus on Coastal Regions”, organized by the **Volkswagen Foundation**, Hannover, Germany, 8–9 December 2015
- Chair of Session 115: “Multiple aspects of mortality and health” at the **European Population Conference**, Budapest, Hungary, 28 June 2014
- Discussant in Session “Extended longevity. Observation and methods” at **XXVII IUSSP International Population Conference**, Busan, South Korea
- Member of Panel during Panel Discussion “Future Uses of Keyfitz’s Work”, together with Ron Lee and Robert Schoen during “**Keyfitz Centennial Symposium on Mathematical Demography**”, Mathematical Biosciences Institute, Ohio State University, Ohio, USA, 25 June 2013
- Chair of Session “Where shall they all go? — Demographic Challenges and Limited Space” during the Symposium “‘Already Beyond? 40 years of Limits to Growth’”, organized by the **Volkswagen Foundation**, 28 November 2012
- Panel Member at Press Workshop “Kapitalgedeckte Altersvorsorge — Riesterrente”, organized by the **House of Finance, University of Frankfurt**, Germany, 27 September 2012
- Chair of Session “Socioeconomic status and health/mortality” at the **European Population Conference**, Stockholm, Sweden, 14 June 2012
- Chair of Session “Mortality measures and models” at the **European Population Conference**, Vienna, Austria, 03 September 2010
- Discussant in Session “International Perspectives on Health and Mortality” at **PAA 2008 Annual Meeting**, New Orleans, USA, 17 April 2008

## 11 Policy-Relevant Activities

- Invited to panels/discussions on demographic change with (selection)
  - six heads of state (**Federal Presidents** of Germany, Austria, and Switzerland, **King of Belgium**, **Grand Duke of Luxembourg**, **Hereditary Prince of Liechtenstein**), September 2014
  - Thomas de Maizière, **Federal Minister** of the Interior in Germany, June 2014
  - Georg Milbradt, former **Prime Minister** of Saxony, January 2014
  - Erwin Sellering, **Prime Minister** of Mecklenburg-Vorpommern, July 2013
- Member of Steering Committee for Symposium “Sustainable Development Goals and the Role of Research: A Focus on Coastal Regions” by the **Volkswagenstiftung** (2015)
- Expert panel on life table estimation. **German Federal Statistical Office**, Wiesbaden, Germany (since October 2014)
- External Expert, committee of the **German Society of Actuaries** (“DAV”) on life tables for annuities (since October 2013)
- Member of Expert Panel on Future Trends in Demography, **RAND Europe** (April/May 2013)
- Member of Steering Committee of Winter School “Limits to Growth Revisited” by the **Volkswagen Foundation** (2012).
- Editor-in-Chief for Demographic Newsletter “Demographische Forschung aus Erster Hand” (since March 2012)
- Expert Panel on Population Projections, **German Federal Statistical Office**, Wiesbaden, Germany (2005, since 2009)



- Member of Council of Advisors of **Population Europe** (since Jan 2012)
- Member of Expert Panel on Identifying Key Themes in the Social and Economic Sciences and the Humanities for the 8th Research Framework Programme of the European Union. **Federal Ministry of Education and Research** (Nov 2010)
- Scientific Consultant for Demographic Newsletter “Demographische Forschung aus Erster Hand” (Sep 2009 – Feb 2012)

## 12 Teaching Experience

- Winner of the 2013 teaching award of the University of Rostock
- Winner of the teaching award of the Department of Sociology & Demography for the summer term 2012 and the winter term 2012/2013.

### 12.1 Bachelor

#### “Introduction to Demography”

- University of Rostock, Winter Term 2012/2013–2016/2017 (and as Lead Instructor during Winter Terms 2010/2011 & 2011/2012)
- Lecture, 2h per week
- General introduction to demographic methods, covering fertility, family dynamics, mortality, migration, health, aging, and forecasting.

#### “Introduction to Formal Demography / Demography III”

- University of Rostock, Winter Terms 2009/2010–2015/2016
- 4h per week: 2h lecture, 2h lab session
- Formal demography, stable population model

#### “Advanced Formal Demography / Demography IV”

- University of Rostock, Summer Terms 2009–2015, 2017
- 4h per week: 2h lecture, 2h lab session
- Formal demography, extensions to the stable population model, formal methods in mortality research

### 12.2 Master

#### “Analysis of Mortality”

- University of Rostock, Winter Term 2011/2012, 2013/2014, 2015/2016
- 2h per week: 2h lecture (Master-level)
- Demographic analysis of mortality, focusing on methods for analyzing aggregate and individual level data

#### “Survival Analysis”

- University of Rostock, Summer Terms 2013–2015, 2017
- 2h seminar per week
- Introduction to survival analysis with a focus on its statistical foundations

#### “Demographic Data Analysis with R”

- University of Rostock, Summer Term 2014
- 2h per week seminar
- Introducing the R language using demographic examples

**“Implementing Preston et al. (2001) ‘Demography’ in R”**

- University of Rostock, Summer Term 2014
- 2h per week seminar
- Implementing demographic methods — as described in Preston et al. (2001) “Demography” — as an add-on package for R.

**“Cancer Mortality in the United States”**

- University of Rostock, Summer Term 2012, Winter Terms 2012/2013, 2014/2015
- Research seminar, 4h per week
- Handling large data-sets (with awk), basic methods & models of epidemiology, in particular survival analysis.

**“Classic and modern demographic literature on mortality and forecasting”**

- University of Rostock, Summer Term 2012
- Seminar, 2h per week

**“Mortality”**

- University of Stockholm, November 2008,
- Intensive Course (“Blockseminar”, jointly with Dr. Magdalena M. Muszyńska)
- Basic methods and current issues in mortality research

**12.3 Doctoral****“Survival Analysis”**

- International Max Planck Research School for Demography, winter terms 2005/ 2006 & 2004/ 2005 (jointly with Dr. Jutta Gampe and Prof. Dr. Francesco Lagona)
- Survival analysis, focusing on the statistical theory and the implementation on the computer.

**“Computer Programming for Demographers”**

- European Doctoral School of Demography, September/October 2005, (for MA- and doctoral students)
- five-week intensive course; basic methods of (statistical) programming in demography

**“An Introduction to R”**

- 3 day intensive workshop in April 2006 for the European MicMac project (<http://www.nidi.knaw.nl/en/micmac/>) at the Max Planck Institute for Demographic Research (for post-docs/research scientists; jointly with Jutta Gampe and Carlo Giovanni Camarda)

**12.4 Other**

- “Mortality trends at higher ages”, Academy for Senior Citizens, University of Rostock, 16. October 2012
- “Efficient storage, analysis and visualization of mortality data using free software” (in German), interdisciplinary lecture series “From Data to Information”, University of Rostock, April 2012
- Lecture and seminar on “Mortality” for summer school of international doctoral student program DEMODOC, October 2011
- Max Planck International Research Network on Aging (MaxNetAging)
  - “Introduction to Demography and Aging Research” in May 2010, November 2010, January 2012, February 2015 (for doctoral students)
- University of Rostock, Medical Faculty

- “Demographie. Besonderheiten in Ost und West” in November 2009 and November 2010 (for MD students, “Selected Aspects of Demography in East and West Germany”)
- European Doctoral School of Demography and International Max Planck Research School for Demography, 2004–2006 (for doctoral students)
  - Guest lectures on seasonal mortality, oldest-old mortality as well as on stable and non-stable population theory (in the courses: “New Directions in Mortality Research” and “Mathematical Demography”).

## 13 Service at the University of Rostock

### 13.1 Administrative Tasks

- Member, University Council (2016–)
- Member, Faculty Council (2010–2012, 2014–2016)
- Member of Senate Commission on Research (2012–2014)
- Chair of the Department of Sociology and Demography (since April 2012)
- Director of Studies for MSc Demography (since January 2012)
- Member, Department “Ageing of Individuals and Society”, Faculty of Interdisciplinary Research, University of Rostock (since November 2011)
- Member, Graduate Studies Council (representing the Faculty of Economic and Social Sciences, since 2010)
- Member of Evaluation Commission for Assistant Professorship in Mathematical Demography (Jul–Sep 2013)
- Member, Examinations Board, (2009–2012) for:
  - BA Social Science
  - MSc Demography
  - MA Sociology
  - MA Economics
- Chair of Evaluation Committee Assistant Professorship Demography
- Member of Appointment Committees for Professors:
  - Political Science (2016–)
  - Political Science (2012)
  - Demography (2011–2012, “Juniorprofessur”)
  - Mathematical Demography (2010, “Juniorprofessur”)

### 13.2 Doctoral Dissertations (in alphabetical order)

#### Supervisor / Evaluator

- Christina Bohk: “Development, Implementation and Application of a Novel Probabilistic Population Projection Model” (Demography, 2011, “summa cum laude”)
- Patrizia Giannantoni: “The contextual contribution to individual health. Area of residence and household influences on perceived health among Italian adults” (Demography, 2013, Sapienza Università di Roma, School of Statistical Sciences, advisor and external evaluator in the bi-national DemoDoc program)
- Pavel Grigoriev: “Health Crisis in Belarus” (Demography, 2012, “magna cum laude”)

- Stefanie Neidhart: "Besiedlung mit Methicillin-resistenten und Methicillin-sensiblen Staphylococcus aureus Keimen in Mecklenburg-Vorpommern" (Dr. rer. hum., 2017)
- Felix Rößger: "Demographic Perspectives on International Migration" (Demography, 2015, "magna cum laude")
- Tobias C. Vogt: "Money or Medicine — The importance of rising pension income and modern health care for old age survival in the natural experiment setting of the German reunification." (Demography, 2014, "magna cum laude")
- Christian M. Wegner-Siegmundt: "Tempo effects in mortality: Theoretical considerations and empirical solutions" (Demography, 2014, "magna cum laude")
- Christina Westphal: "Healthy Ageing? Trends and Patterns in Smoking and Overweight and their Impact on the Health Prospects of the Ageing Population in Germany" (Demography, 2014, "magna cum laude")
- Oliver Wissler: "Sex differences in middle mortality" (Demography, 2015, "cum laude")

#### Chair of Commission

- Esther Geisler: "How do welfare state policies shape parental employment patterns? A comparison of Great Britain, eastern and western Germany" (Sociology, 2013)
- Eva Kibele: "Regional mortality differences in Germany. Spatial patterns, temporal trends, contextual- and individual-level determinants" (Demography, 2011)
- Lavri Labi: "Modeling Default Probability in Credit Portfolios: Evidence based on Debt Securities Issuers in Germany" (Social and Economic Statistics, 2016)
- Adam Lenart: "The Gompertz Distribution — characterization and novel applications in formal, economic, and statistical demography" (Demography, 2012)
- László Németh: "Identifying the parsimonious model for adult and old-age human mortality: Statistical evidence, applications and consequences" (Demography, 2016)
- Stefan Posselt: "Die Daseinsvorsorge als Entwicklungsfokus des ländlichen Raumes: Vorstellung eines praxisnahen Leitfadens zur Regionalentwicklung am Fallbeispiel Mecklenburg-Vorpommern" (Political Science, 2014, in German)
- Thomas Salzmann: "Determinants of Mortality in Mecklenburg-Vorpommern: Findings from Official Statistics and the 'Study of Health in Pomerania'-Survey" (Demography, 2012)
- Benjamin Strohner: Altersspezifische, markovkettenbasierte Fertilitätsprognose und ihre Bedeutung für die Bevölkerungs- und Wirtschaftspolitik (Economics, 2015)
- Tomasz F. Wrycza: "Demographic methods for measuring aging: The conceptual framework of pace and shape" (Demography, 2014)

#### Member of Commission

- Sven Drefahl: "Death in the Family" (Demography, 2010)
- Golo Henseke: Essays on labor market consequences and challenges of demographic change (Economics, 2011)
- Kathrin Johansen: "Individual Participation in Occupational Pension Plans in Germany: Essays on Determinants of Supply, Demand and Financial Intermediation" (Economics, 2010)
- Marcel Reusch "Die Bewertung der Regional- und Strukturförderung der EU — ziellos aber erfolgreich?" (Political Science, 2013, in German. "Evaluation of the European Regional Development Fund — aimless but successful?")
- Uta Ziegler: Dementia in Germany - past trends and future developments (Demography, 2010)

- Sabine Zinn: “A continuous time microsimulaton and first steps towards a multi-level approach in demography” (Computer Science, 2011)
- van Bui, Thi Mai: “Essays on Retirement Decisions in a Family Context” (Economics, 2015)

### 13.3 Thesis Supervision/Evaluation, Bachelor & Master

Supervised / evaluted

- more than 20 Master theses and
- more than 40 Bachelor theses.

## 14 Media Experience

**Print (selection):** Frankfurter Allgemeine Zeitung, Berliner Zeitung, Tagesspiegel, Die Welt, Men’s Health, Slate, Neue Zürcher Zeitung, P.M.-Magazin, Schweriner Volkszeitung, Münchner Merkur, brandEins, Hannoversche Allgemeine Zeitung, n-tv.de, Märkische Allgemeine Zeitung

**Radio:** Deutschlandradio, Deutsche Welle, Bayerischer Rundfunk

**Indirect (research cited without interview, selection):** ABC, BBC, CBC, The Guardian, Hamburger Abendblatt, The Hindu, New York Times, NY Post, Reuters, Sky News, The (London) Times, USA Today, U.S. News & World Report, FAZ, Augsburger Allgemeine, BILD

## 15 Language and Computer Skills

- Languages: German (mother tongue), English (fluent), French (basic), Latin
- Computer Skills:
  - Operating Systems: GNU/Linux (since 2001), MS Windows (since Windows 95)
  - Office-Software: MS Word, MS Excel, MS Powerpoint, OpenOffice.org
  - Editors: Emacs/XEmacs, WinEdt, vi
  - Typesetting: L<sup>A</sup>T<sub>E</sub>X
  - Statistical Packages: R, SAS, S-Plus, SPSS, Stata, aML, TDA, EViews, XLisp-Stat
  - Symbolic Algebra Packages: Maxima
  - Databases: SQLite
  - Programming: Awk, SQL; Hobby: C, Fortran (90/95), Python, functional programming (Lisp, Haskell, OCaml)

## 16 Erdős Number: 3

1. ERDŐS, P.; PALKA, Zbigniew J. (1983): Trees in random graphs. *Discrete Math.* 46, 145–150.
2. PALKA, Zbigniew J.; COHEN, Joel E. (1994): Isolated vertices of random niche overlap graphs. *Ars Combin.* 37, 65–74.
3. BOHK, Christina; RAU, Roland; COHEN, Joel E. (2015): Taylor’s power law in human mortality *Demographic Research*, Vol. 33, No. 21, pp. 589–610