

Curriculum Vitæ— Roland Rau

(Last Update: October 11, 2026)

Contents

1	Name and Address for Correspondence	2
2	Education	2
3	Current and Previous Appointments	2
4	Major Grants / Third Party Funding	2
5	Selected Honors and Prizes	3
6	Publications	3
7	Software	8
8	Presentation of Papers and Posters	9
9	Professional Activities	21
9.1	Reviewer for Funding Agencies	21
9.2	Reviewer for Journals	21
9.3	Further Academic Service	21
9.4	Professional Affiliations	22
10	Policy-Relevant Activities	22
11	Teaching Experience	22
12	Thesis Supervision	23
13	Service at the University of Rostock	23
14	Media Experience	23
15	Language and Computer Skills	24
16	Erdős Number	24

1 Name and Address for Correspondence

Name: Roland Rau

Date of Birth: 27 May 1975

Marital Status: Married, 1 Child

Address for Correspondence:

Office (1):

University of Rostock

Dept. of Sociology & Demography

Chair of Demography

Ulmenstr. 69

D-18057 Rostock

Germany

Office (2):

Max Planck Institute for

Demographic Research

Konrad-Zuse-Str. 1

D-18057 Rostock

Germany

Tel: +49 – 381 – 498 4044

Email: roland.rau@uni-rostock.de

rau@demogr.mpg.de

2 Education

June 2005: Ph.D. in Demography with distinction (“summa cum laude”), University of Rostock, Germany

May 2001: Dipl.-Pol. Univ. (~Master’s Degree) in Political Science (Major), Statistics and Demography (Minors), University of Bamberg, Germany

3 Current and Previous Appointments

since 06/2011: Professor of Demography at the University of Rostock (full professor, tenured)

since 10/2025: Dean of Studies (Studiendekan), Faculty of Economic & Social Sciences, University of Rostock

since 08/2021: Senior Research Scientist, Max Planck Institute for Demographic Research, Rostock

03/2016–03/2021: Max Planck Fellow, appointed by the president of the Max Planck Society

06/2014–05/2015: Guest Researcher, Institute of Public Health, University of Southern Denmark, Odense

02–03/2014 & Visiting Scholar, Center for Demography

02–03/2015: & Population Health, Florida State University, USA

07/2009–05/2011: Assistant Professor of Demography at the University of Rostock (“Juniorprofessor”)

09/2008–06/2009: Senior Research Scientist, Max Planck Institute for Demographic Research, Rostock

09/2006–08/2008: Research Scholar, Terry Sanford Institute of Public Policy, Duke University, USA

06/2005–08/2006: Research Scientist, Max Planck Institute for Demographic Research, Rostock

06/2001–05/2005: Doctoral Student, Max Planck Institute for Demographic Research, Rostock

4 Major Grants / Third Party Funding

- Research Group “Actuarial and Mathematical Demography”
 - Role: Head of Group / Max Planck Fellow
 - Funded by: Max Planck Society
 - Amount: € 500,000
 - Time-Frame: 15 Mar 2016 – 14 Mar 2021

- 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

5 Selected Honors and Prizes

April 2019:	Best poster award, Annual Meeting of the PAA (with Torsten Sauer)
August 2018:	Best paper award, Demographic Research (with Joel E. Cohen & Christina Bohk-Ewald)
April 2017:	Cozzarelli Award, Proceedings of the National Academy of Sciences (for joint paper Colchero et al.)
March 2016:	Appointed as Max Planck Fellow by the president of the Max Planck Society
May 2015:	Best poster award, Annual Meeting of the PAA (with Christina Bohk and Joel E. Cohen)
May 2014:	Best poster award, Annual Meeting of the PAA (with Marcus Ebeling)
July 2013:	Teaching Award of the University of Rostock
July 2006:	Otto-Hahn-Medal of the Max Planck Society

6 Publications

JIF 2026

Summary:

	Total	Since 2021
Citations	7892	3002
h-index	27	19
i10-index	43	29

Source: scholar.google.com, 11 October 2026

Journal impact factor ("JIF", date: 30 June 2026) from <https://www.journalmetrics.org/> listed in the margin if peer-reviewed and available. Alternatively, for monographs and contributions to edited volumes, the number of citations on scholar.google.com is given.

84. GEORG WENAU, PAVEL GRIGORIEV, SEBASTIAN KLÜSENER, ROLAND RAU, ENA PETERS, VLADIMIR M. SHKOLNIKOV (2026): For Whom Does Place Matter? Regional Variation in the SES-Mortality Gradient Among Retired Men in Germany. **Journal of Economics and Statistics (Jahrbücher für Nationalökonomie und Statistik)** 1.2
83. ROLAND RAU, CARLOTTA DIETRICH, BERNHARD KÖPPEN (2026): Heat- And Cold- Associated Mortality in Germany, 2000–2023. **Deutsches Ärzteblatt International** 123: 357–361 8.7
82. ROLAND RAU, HEIKE TRAPPE (2026): Visualising age-specific fertility patterns in the former GDR and in East Germany, 1956–2017. **Comparative Population Studies** Vol. 51: 151–156 2.3
81. ANNA-KATHLEEN PIERETH, ROLAND RAU, MARCUS EBELING (2026): Population aging and changing hospitalization risks in Germany: a decomposition of changes in inpatient cases, 2005–2021. **BMC Public Health**, Vol. 26:1437 4.4

80. ROLAND RAU (2026): Bevölkerung in Deutschland könnte um ein Viertel schrumpfen. **Demografische Forschung Aus Erster Hand** 23(1), 1–2 (popular science article, not peer-reviewed) —
79. JULIA CALLAWAY, COSMO STROZZA, KAARE CHRISTENSEN, GABRIELE DOBLHAMMER, ROLAND RAU, JES SØGAARD (2025): Ageing populations: new challenges in longevity. **BMC Public Health**, Vol. 25:4595 4.4
78. GUSTAV FEICHTINGER, ROLAND RAU, ANDREAS J. NOVÁK (2025): On the momentum of pseudostable populations. **Demographic Research** 52, Vol. 15: 445–478 2.3
77. ROLAND RAU (2025): Lebenserwartung im Wandel der Zeit. **Aktuar Aktuell**: Ausgabe 69:10–11 (non-scientific / popular science article) —
76. HEIKE TRAPPE, ROLAND RAU, KATRIN SCHIEFER, C. KATHARINA SPIESS (2025): Comparative Population Studies at Fifty: Views on the Past, Present, and Future (Editorial). **Comparative Population Studies**, Vol. 50: I–VI 2.3
75. MARCUS EBELING, MICHAEL MÜHLICHEN, MATS TALBÄCK, ROLAND RAU, ALEXANDER GOEDEL, SEBASTIAN KLÜSENER (2024): Disease incidence and not case fatality drives the rural disadvantage in myocardial-infarction-related mortality in Germany. **Preventive Medicine** Vol. 179: 107833. 3.2
74. ROLAND RAU (2024): Geleitwort in Hendrik Budliger (Ed.): Fachkräftemangel und Maßnahmen-Champions. Springer Gabler Wiesbaden. (Editorial) —
73. MARINA KOLOBOVA, DMITRI JDANOV, DOMANTAS JASILIONIS, VLADIMIR M. SHKOLNIKOV, ROLAND RAU (2023): Variation in the burden of the COVID-19 pandemic across federal states in Germany. **European Journal of Public Health**, Vol 33, No. 5:930–936 5.2
72. MAXI S. KNIFFKA, ROLAND RAU, MINE KÜHN, JONAS SCHÖLEY, NATHALIE NITSCHKE (2023): Steigende Totgeburtensraten in Deutschland. Der Einfluss von Strukturveränderungen in der Bevölkerung. **Deutsches Ärzteblatt** 120: 503–504. DOI: 10.3238/arztebl.m2023.0054 8.7
71. GUSTAV FEICHTINGER, ROLAND RAU, ANDREAS J. NOVÁK (2023): On the Momentum of Pseudostable Populations. **VID Working Papers** 01/2023. <https://doi.org/10.1553/0x003e187b> —
70. ESTHER DENECKE, PAVEL GRIGORIEV, ROLAND RAU (2023). Evaluation of small-area estimation methods for mortality schedules. **arXiv preprint arXiv:2302.01693** —
69. MARCUS EBELING, ROLAND RAU, NIKOLA SANDER, EVA KIBELE, SEBASTIAN KLÜSENER (2022): Urban-rural disparities in old-age mortality vary systematically with age: evidence from Germany and England & Wales. **Public Health**, Vol. 205:102–109 3.5
68. INNA DANILOVA, ROLAND RAU, MAGALI BARBIERI, PAVEL GRIGORIEV, DMITRI A. JDANOV, FRANCE MESLÉ, JACQUES VALLIN, VLADIMIR M. SHKOLNIKOV (2021): Subnational consistency of cause-of-death data: the cases of Russia, Germany, the United States, and France. **Population**, Vol. 76, No. 4:645–674 1.3
67. ROLAND RAU (2021) Best Performance Countries in Longevity. In: Danan Gu, Matthew E. Dupre (Eds.): *Encyclopedia of Gerontology and Population Aging*. Springer, Cham. https://doi.org/10.1007/978-3-319-69892-2_797-1 —
66. MAXI S. KNIFFKA, NATALIE NITSCHKE, ROLAND RAU, MINE KÜHN (2021): Stillbirths in Germany: On the rise, but no additional increases during the first COVID-19 lockdown. **International Journal of Gynecology & Obstetrics**, Vol. 155, No. 3:483–489 2.7
65. ROLAND RAU (2021): Der unerbittliche Gleichschritt des Alterns. **Demografische Forschung Aus Erster Hand** 18(3), 4 (popular science article, not peer-reviewed) —
64. MARCUS EBELING, ROLAND RAU, HÅKAN MALMSTRÖM, ANDERS AHLBOM, KARIN MODIG (2021): The rate by which mortality increases with age is the same for those who experienced chronic disease as for the general population. **Age & Ageing**, Vol. 50(5):1633–1640. DOI: 10.1093/ageing/afab085 7.4
63. ROLAND RAU, CARL P. SCHMERTMANN (2020): District-Level Life Expectancy in Germany. **Deutsches Ärzteblatt International** Vol 117: 493–499 8.7

62. ANNA OKSUZYAN, ANDREAS HÖHN, JACOB KRABBE PEDERSEN, ROLAND RAU, RUNE LINDAHL-JACOBSEN, KAARE CHRISTENSEN (2020): Preparing for the future: The changing demographic composition of hospital patients in Denmark between 2013 and 2050. **PLOS ONE** 15 (9): e0238912 2.8
61. KARIN MODIG, ROLAND RAU, ANDERS AHLBOM (2020): Life Expectancy: What does it measure? **BMJ Open**, Vol. 10, No. 7:e035932 2.5
60. TORSTEN SAUER, MARCUS EBELING, ROLAND RAU (2018). The Fateful Cohorts. **American Journal of Public Health**, Vol. 108, No. 10:e1–e2 7.8
59. ANDREAS HÖHN, LISBETH AAGAARD LARSEN, DANIEL CHRISTOPH SCHNEIDER, RUNE LINDAHL-JACOBSEN, ROLAND RAU, KAARE CHRISTENSEN, ANNA OKSUZYAN (2018): Sex differences in the 1-year risk of dying following all-cause and cause-specific hospital admission after age 50 in comparison with a general and non-hospitalized population: A register-based cohort study of the Danish population. **BMJ Open**, Vol. 8, No. 7, e021813. <https://bmjopen.bmj.com/content/8/7/e021813.info> 2.5
58. MARCUS EBELING, KARIN MODIG, ANDERS AHLBOM, ROLAND RAU (2018): The effects of increasing longevity and changing incidence on lifetime risk differentials: A decomposition approach. **PLOS ONE**, Vol. 13, No. 4, e0195307. <https://doi.org/10.1371/journal.pone.0195307> 2.8
57. MARCUS EBELING, ROLAND RAU, ANNETTE BAUDISCH (2018): Rectangularization of the survival curve reconsidered: The maximum inner rectangle approach. **Population Studies**, Vol. 72, No. 3, pp. 369-379 2.4
56. JOEL E. COHEN, CHRISTINA BOHK-EWALD, ROLAND RAU (2018): Gompertz, Makeham, and Siler models explain Taylor's law in human mortality data. **Demographic Research**, Vol. 38, pp. 773-842 2.3
55. ROLAND RAU, CHRISTINA BOHK-EWALD, MAGDALENA M. MUSZYŃSKA, JAMES W. VAUPEL (2018): **Visualizing Mortality Dynamics in the Lexis Diagram**. The Springer Series on Demographic Methods and Population Analysis. Dordrecht, The Netherlands: Springer 87k accesses
58 citations
54. ROLAND RAU, MARCUS EBELING, FREDERIK PETERS, CHRISTINA BOHK-EWALD, TRIFON I. MISOV (2017): Where is the level of the mortality plateau? Society of Actuaries (Eds): **2017 Living to 100 Monograph** 7 citations
53. CHRISTINA BOHK-EWALD, MARCUS EBELING, ROLAND RAU (2017): Lifespan Disparity as an Additional Indicator for Evaluating Mortality Forecasts. **Demography**, Vol. 54, No. 4, pp. 1559–1577 3.5
52. KARIN MODIG, TOMAS ANDERSSON, JAMES W. VAUPEL, ROLAND RAU, ANDERS AHLBOM: How long do centenarians survive? Life expectancy and maximum lifespan. **Journal of Internal Medicine**, Vol 282, No. 2, pp. 156–163 7.6
51. FERNANDO COLCHERO, ROLAND RAU, ALEXANDER SCHEUERLEIN, BJÖRN SCHWENTKER, JAMES W. VAUPEL (2017): Sterbealter gleichen sich an. In: Max-Planck-Gesellschaft zur Förderung der Wissenschaften (Ed.): **Jahrbuch 2017**, pp. 1–6 —
50. CHRISTINA BOHK-EWALD, ROLAND RAU (2017): Probabilistic mortality forecasting with varying age-specific survival improvements. **Genus**, Vol. 73, pp. 1–37 3.0
49. 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 9.5
48. RUNE LINDAHL-JACOBSEN, ROLAND RAU, BERNARD JEUNE, VLADIMIR CANUDAS-ROMO, ADAM LENART, KAARE CHRISTENSEN, JAMES W. VAUPEL (2016): 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 9.5

47. 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 8 citations
46. 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 7 citations
45. FREDERIK PETERS, CHRISTINA BOHK-EWALD, ROLAND RAU (2015): Future inequalities in life expectancy in England and Wales. **The Lancet (Correspondence)**, Vol. 386, p. 2391 109.0
44. 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 1.6
43. CHRISTINA BOHK, ROLAND RAU, JOEL E. COHEN (2015): Taylor’s power law in human mortality **Demographic Research**, Vol. 33, No. 21, pp. 589–610 2.3
42. ROLAND RAU (2015): Alternative estimates support new findings of Andreev and Kingkade. **Demographic Research**, Electronic Response Letters. Available online at http://www.demographic-research.org/volumes/vol33/13/letter_41.pdf 2.3
41. 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 —
40. 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 5 citations
39. 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 —
38. ROLAND RAU (2014): Der demografische Wandel in Deutschland unter besonderer Berücksichtigung der Mortalitätsentwicklung. In: Ärzteversorgung Niedersachsen (Eds.): **50 Jahre Ärzteversorgung Niedersachsen**, S. 102–117 —
37. CHRISTINA BOHK, ROLAND RAU (2014): Probabilistic Mortality Forecasting with Varying Age-Specific Survival Improvements. **arXiv.org**, 1311.5380 —
36. 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 2 citations
35. 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 2.3
34. 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) 3.5
33. 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 18 citations
32. JAMES W. VAUPEL, ROLAND RAU (2013): Research vs. Rhetoric. **Gerontology**, Vol. 59: pp. 95–96 3.1
31. ROLAND RAU (2012): Methusalem bald unter uns? (Methuselah Soon Among Us?) **Neue Zürcher Zeitung — NZZ Fokus**, Issue 51, pp. 90–91 (non-scientific article) —
30. MAGDALENA M. MUSZYŃSKA, ROLAND RAU (2012): The Old-Age Healthy Dependency Ratio in Europe. **Journal of Population Ageing**, Vol. 5: 151–162 1.7

29. 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 2 citations
28. 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 52 citations
27. 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. 1.8
26. KAARE CHRISTENSEN, GABRIELE DOBLHAMMER, ROLAND RAU, JAMES W. VAUPEL (2010): Ageing and health – Authors’ reply. **The Lancet**, Vol. 375, Issue 9708, pp. 26–27 109.0
25. 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 4.0
24. KAARE CHRISTENSEN, GABRIELE DOBLHAMMER, ROLAND RAU, JAMES W. VAUPEL (2009): Ageing populations: the challenges ahead. **The Lancet**, Vol. 374, Issue 9696, pp. 1196–1208 109.0
23. 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
22. 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 4.0
21. 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 3.5
20. 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 2.1
19. 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 1 citation
18. 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. 55 citations
17. 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 —
16. ROLAND RAU (2007): **Seasonality in Human Mortality. A Demographic Approach**. Demographic Research Monographs Series, Heidelberg: Springer 4475 accs
204 citations
15. 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 —
14. 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 7 citations

13. 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** —
12. 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. 8 citations
11. 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). —
10. 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 2.6
9. 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 55.1
8. 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 —
7. ROLAND RAU, GABRIELE DOBLHAMMER (2003): Seasonal mortality in Denmark: The role of sex and age. **Demographic Research**, Vol. 9, pp. 197–222 2.3
6. 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 —
5. GABRIELE DOBLHAMMER, JOSEPH LEE RODGERS, ROLAND RAU (2000): Seasonality of Birth in Nineteenth- and Twentieth-Century Austria. **Social Biology**, Vol. 47, pp. 201–217 (now: *Biodemography and Social Biology*) 1.4
4. ROLAND RAU (2000): **Alters-, Perioden-, und Kohorteneffekte im Wahlverhalten**. Diploma-Thesis, Lehrstuhl für Politikwissenschaft II, Universität Bamberg, July 2000 —
3. HARALD W. LEDERER, ROLAND RAU, STEFAN RÜHL (1999): **Migration Review 1999. Migration in- and outflows to and from Germany**. Bamberg: efms (CD-ROM) —
2. 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 8 citations
1. HARALD W. LEDERER, ROLAND RAU, STEFAN RÜHL (1999): **Migrationsbericht 1999. Zu- und Abwanderung nach und aus Deutschland**. Bonn / Berlin: Beauftragte der Bundesregierung für Ausländerfragen 15 citations

7 Software

- “StablePop”, extension package for R. Authors: Roland Rau; first published in 2022. License: GPL-2. **Language: R**. Available online at <https://gitlab.com/rolandrau/StablePop>
- “ProjMatRawData”, extension package for R providing the raw data to create projection matrices for all countries/regions of the world. Author: Roland Rau; first published in 2022. License: GPL-2. **Language: R**. Available online at <https://gitlab.com/rolandrau/ProjMatRawData>

- “WorldPopQuery”, extension package for R to query package “AnnualWorldPopulation”. Author: Roland Rau; first published in 2022. License: GPL-2. **Language: R.** Available online at <https://gitlab.com/rolandrau/WorldPopQuery>
- “AnnualWorldPopulation”, extension package for R containing the population estimates by single age and single calendar year from the United Nations’ World Population Prospects 2019 Revision of the United Nations. Author: Roland Rau; first published in 2022. License: GPL-2. **Language: R.** Available online at <https://gitlab.com/rolandrau/AnnualWorldPopulation>
- “LogrankA”, extension package for R. Authors: Jonas Richter-Dumke, Roland Rau; first published in 2013. License: GPL-2. **Language: R.**
- “ROMIplot”, extension package for R. Authors: Roland Rau, Tim Riffe; first published in 2015. 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**

8 Presentation of Papers and Posters

Summary (01 July 2026): 170 scientific presentations incl. posters. Among them:

- **17 at the International Population Conference (every 4 years; 17 papers)**
- **50 at the Annual Meeting of the Population Association of America (annually, incl. three poster awards; 27 papers, 23 posters)**
- **24 at the European Population Conference (every 2–3 years; 21 papers; 3 posters)**

170. CARLOTTA DIETRICH, ROLAND RAU (2026): Uncovering the Age Structure of Temperature-Related Mortality in Germany from 2000 to 2023. Presented in Session 102 “Seasonal, Climate- and COVID-19-Related Mortality”, at the **European Population Conference**, Bologna, Italy, 06 June 2026
169. MARIA LAURA MIRANDA, UGO FILIPPO BASELLINI, ROLAND RAU, EMILY SMITH-GREENAWAY, EMILIO ZAGHENI (2026): The Unequal Burden of Child Loss: Evidence from Sub-Saharan Africa and Latin America. Poster presented in Session on “Education, Labor Market, and Economic Issues”, at the **European Population Conference**, Bologna, Italy, 05 June 2026
168. GUSTAV FEICHTINGER, ROLAND RAU, ANDREAS NOVAK, STEFAN WRZACZEK, THOMAS FENT (2025): The Formal Demography of Populations with Declining Fertility. Poster presented in Session on “Demographic Trends, History, Data and Methods”, at the **European Population Conference**, Bologna, Italy, 05 June 2026
167. NIKLAS ULLRICH-KNIFFKA, ROLAND RAU (2026): Beyond Integer Revivals. Poster presentation in Session on “Data and Methods/Applied Demography/Other”, at the **Annual Meeting of the Population Association of America**, St. Louis, USA, 09 May 2026
166. ROLAND RAU, JOEL E. COHEN (2026): How long does the oldest living person live? Is there a mortality plateau? **16th Supercentenarian International Seminar, Aubervilliers/Paris**, 08–09 April 2026
165. ROLAND RAU, STUART GIETEL-BASTEN (2025): Why is life expectancy so high in Hong Kong? Presentation at the **BiB Population Research Series**, Wiesbaden, Germany, 24 September 2025

164. ROLAND RAU, STUART GIETEL-BASTEN (2025): Blue Zones in Hong Kong? Searching for Areas of Exceptional Longevity in the Longest-Living Territory in the World. Presented in Session 72: "Subnational and Spatial Variation in Mortality" at the **30th IUSSP International Population Conference**, Brisbane, Australia, July 2025
163. MARIA LAURA MIRANDA, UGO FILIPPO BASELLINI, ENRIQUE ACOSTA, ROLAND RAU, EMILIO ZAGHENI (2025): Assessing the Impact of the Covid-19 Pandemic on Mortality: A Comparative Analysis of Period and Cohort Life Expectancy. Presented in Session 93: "Early Life Exposure and Cohort Change in Health and Mortality" at the **30th IUSSP International Population Conference**, Brisbane, Australia, July 2025
162. CARLOTTA DIETRICH, ROLAND RAU, BERNHARD KÖPPEN (2025): Temperature Related Mortality in Germany and England and Wales in the 21st Century. Presented in Session 94: "Climate Change, Climate-Related Risks and Mortality" at the **30th IUSSP International Population Conference**, Brisbane, Australia, July 2025
161. ROLAND RAU (2025): Entwicklung der Lebenserwartung und Todesursachen in Deutschland. **22th Ostseesymposium Onkologie & 7th Onkologischer Pflegefachtag**, Rostock, Germany, 27 June 2025
160. ROLAND RAU, STUART GIETEL-BASTEN (2025): Blue Zones in Hong Kong? Searching for Areas of Exceptional Longevity in the Longest Living Territory in the World. Presentation in Session on "Small Area Estimation of Morbidity and Mortality Trends", at the **Annual Meeting of the Population Association of America**, Washington, USA, 12 April 2025
159. MARIA LAURA MIRANDA, UGO FILIPPO BASELLINI, EMILIO ZAGHENI, ROLAND RAU, EMILY SMITH-GREENAWAY (2025): Socioeconomic Determinants of Child Loss: Analyzing Maternal Education and Mortality Inequalities Using DHS Data. Poster presentation in Session on "Mortality and Morbidity/Demography of Low- and Middle-Income Countries", at the **Annual Meeting of the Population Association of America**, Washington, USA, 12 April 2025
158. MARIA LAURA MIRANDA, UGO FILIPPO BASELLINI, EMILIO ZAGHENI, ENRIQUE ACOSTA, ROLAND RAU (2025): Assessing the Moderate Impact of the COVID-19 Pandemic on Cohort Life Expectancy: A Global Analysis. Presentation in Session on "Innovative Methods in the Analysis of Infectious Disease", at the **Annual Meeting of the Population Association of America**, Washington, USA, 12 April 2025
157. ROLAND RAU, STUART GIETEL-BASTEN (2025): A Compositional Explanation for Record Life Expectancy in Hong Kong? Presentation in Session on "Trends in Global Mortality", at the **Annual Meeting of the Population Association of America**, Washington, USA, 11 April 2025
156. ANNA-KATHLEEN PIERETH, ROLAND RAU, MARCUS EBELING (2025): Population Aging: The Major Driver of the Hospital Case Increase in Germany. Presentation in Session on "Population Aging and Policy in International Context", at the **Annual Meeting of the Population Association of America**, Washington, USA, 11 April 2025
155. ROLAND RAU (2024): Das Labor Force Replacement Ratio — ein einfaches Maß zur Schätzung des Arbeitskräftemangels. **20 Years of "Demografische Forschung Aus Erster Hand"**, Rostock, 12 November 2024
154. ROLAND RAU (2024): Life Expectancy: Past Trends and Recent Developments. Guest Lecture at **Hong University of Science and Technology**, 26 September 2024
153. ROLAND RAU, BERNHARD KOEPPEN (2024): Did the Number of Heat-Related Deaths Increase in Germany in the 21st Century? Presented in Session 65 "Mortality and Longevity", at the **European Population Conference**, Edinburgh, UK, 14 June 2024
152. MANJA ALBRECHT, ROLAND RAU (2024): Changing Risk Factors - an Analysis on Short Term Mortality. Presented in Session 87 "Mortality Trends and Risk Factors", at the **European Population Conference**, Edinburgh, UK, 14 June 2024
151. ROLAND RAU, NIKLAS ULLRICH (2024): Period Life Expectancy Should Not Be Called the Mean Age at Death. Poster presented in Session on "Neighborhoods, Environment, Spatial Demography, and Data and Methods", at the **Annual Meeting of the Population Association of America**, Columbus, USA, 19 April 2024

150. CARL SCHMERTMANN, ROLAND RAU, KARIN MODIG (2024): Municipal-Level Trends in Swedish Life Expectancy Pre- and Post-COVID: A Bayesian Model of Space–Time–Age Interactions. Presented in Session on “Innovative Applications of Satellite and Spatial Data”, at the **Annual Meeting of the Population Association of America**, Columbus, USA, 19 April 2024
149. MANJA ALBRECHT, ROLAND RAU (2024): Changing Risk Factors: An Analysis on Short-Term Mortality. Poster presented in Session on “Mortality and Morbidity”, at the **Annual Meeting of the Population Association of America**, Columbus, USA, 18 April 2024
148. NIKLAS ULLRICH, ROLAND RAU (2024): The Tail of Changing Age-Specific Mortality. Presented in Session on “Innovations in Demographic Methods and Formal Demography”, at the **Annual Meeting of the Population Association of America**, Columbus, USA, 18 April 2024
147. MANJA ALBRECHT, ROLAND RAU (2024): The Effect of Smoking Duration and Intensity on Mortality. Poster at the **Annual Meeting of the German Demographic Society (DGD)**, Hamburg, Germany, 21 March 2024
146. GEORG WENAU, PAVEL GRIGORIEV, SEBASTIAN KLÜSENER, ROLAND RAU, VLADIMIR M. SHKOLNIKOV (2024): Does place matter? Regional variation in the SES-mortality gradient among retired German men. **Annual Meeting of the German Demographic Society (DGD)**, Hamburg, Germany, 20 March 2024
145. MAXI KNIFFKA, ROLAND RAU, MINE KÜHN, JONAS SCHÖLEY, NATALIE NITSCHKE (2023): Increasing Stillbirth Rates in Germany: The Influence of Changes in Population Structure. Poster presented in Session on “Fertility, Family Planning, and Reproductive Health: Gender and Sexuality”, at the **Annual Meeting of the Population Association of America**, New Orleans, USA, 15 April 2023
144. MARINA KOLOBOVA, DMITRY JDANOV, DOMANTAS JASILIONIS, VLADIMIR SHKOLNIKOV, ROLAND RAU (2023): Variation in the Burden of the COVID-19 Pandemic Across Federal States in Germany: The Role of Reported COVID-19 Morbidity and Selected Structural Indicators. Poster presented in Session on “COVID-19; Data and Methods”, at the **Annual Meeting of the Population Association of America**, New Orleans, USA, 14 April 2023
143. ESTHER DENECKE, PAVEL GRIGORIEV, ROLAND RAU (2023): Evaluation of Small-Area Estimation Methods for Mortality Schedules. Presented in Session on “Incorporating Concepts of Space Into Mortality Analyses”, at the **Annual Meeting of the Population Association of America**, New Orleans, USA, 14 April 2023
142. ROLAND RAU, SIDDARTHA ARADHYA, CARL SCHMERTMANN (2023): Mortality of NFL Players: How Do They Differ From the General Population? Poster presented in Session on “Mortality and Morbidity”, at the **Annual Meeting of the Population Association of America**, New Orleans, USA, 13 April 2023
141. ROLAND RAU (2023): 20 Years in Demography, Hopefully More than 20 Years to Go. Keynote at the **Annual Meeting of the German Demographic Society (DGD)**, Koblenz, Germany, 17 March 2023
140. NIKLAS ULLRICH, CARL SCHMERTMANN, ROLAND RAU (2023): Alters- und todesursachenspezifische Dekomposition der Lebenserwartung. Eine alternative Perspektive. Poster at the **Annual Meeting of the German Demographic Society (DGD)**, Koblenz, Germany, 16 March 2023
139. MANJA ALBRECHT, ROLAND RAU (2023): Hat sich der Einfluss der Risikofaktoren auf die Sterblichkeit über die Zeit hinweg verändert? Poster at the **Annual Meeting of the German Demographic Society (DGD)**, Koblenz, Germany, 16 March 2023
138. ELLEN JAHR, ROLAND RAU (2023): Lebenserwartung in deutschen Großstädten und der Zusammenhang mit soziostrukturellen Indikatoren. **Annual Meeting of the German Demographic Society (DGD)**, Koblenz, Germany, 15 March 2023
137. ROLAND RAU (2023): Deep Dive Europe: Germany, Switzerland, Netherlands, France and United Kingdom. Expert Forum on Demographic Transitions: Impact on Longevity, Health and Economy, **Swiss Re and Global Longevity Council of the World Demographic & Ageing Forum**, Online/Rüschlikon, Switzerland, 27 January 2023

136. MARCUS EBELING, ROLAND RAU, HÅKAN MALMSTRÖM, ANDERS AHLBOM, AND KARIN MODIG (2023): The Rate by Which Mortality Increase with Age is the same for Those Who Experienced Chronic Disease as for the General Population. Conference **“Living to 100”, Society of Actuaries**, Orlando, FL, USA, 16-18 January 2023
135. ROLAND RAU, BERNHARD KÖPPEN, MARCUS EBELING (2022): Can Stress (From Unimportant Events) Kill You? Seminar at the **Center for Demography & Population Health, Florida State University**, Tallahassee, FL, USA, 09 September 2022
134. ROLAND RAU (2022): Wann steigt die Lebenserwartung wieder ab? Seminar at the **Federal Statistical Office of Germany (destatis)**, Online/Wiesbaden, Germany, 02 September 2022.
133. ROLAND RAU (2022): Life Expectancy Trends in Germany, Europe, and Beyond. Online Seminar **European Actuarial Academy**, 21 September 2022
132. ROLAND RAU (2022): Lebenserwartung. Historische Entwicklung und regionale Verteilung. **46. Mannheimer Versicherungswissenschaftliche Jahrestagung**, Online/Mannheim, 12 July 2022
131. GEORG WENAU, PAVEL GRIGORIEV, SEBASTIAN KLUESENER, ROLAND RAU, VLADIMIR M. M. SHKOLNIKOV (2022): Does Place Matter? Regional Variation in the SES-Mortality Gradient among Retired German Men. Presented in Session 54 “Disparity and Variation in Mortality”, at the **European Population Conference**, Groningen, The Netherlands, 01 July 2022
130. NIKLAS ULLRICH, CARL P. SCHMERTMANN, ROLAND RAU (2022): Death Expectancy H1 – An Alternative Measure for Longevity. Presented in Session 25 “Advancements in Mortality analysis”, at the **European Population Conference**, Groningen, The Netherlands, 30 June 2022
129. ROLAND RAU (2022): Lebenserwartung. Historische Entwicklung und regionale Verteilung. Lecture Series “Bevölkerungsentwicklung in internationaler Perspektive. Chancen oder Risiken?”, **LMU Munich**, Germany, 22 June 2022
128. NIKLAS ULLRICH, CARL SCHMERTMANN, ROLAND RAU (2022): Death Expectancy H1: An Alternative Measure for Longevity. Presented in Session on “Formal and Mathematical Demography”, at the **Annual Meeting of the Population Association of America**, Atlanta, USA, 09 April 2022
127. MAXI KNIFFKA, NATALIE NITSCHKE, ROLAND RAU, MINE KÜHN (2022): Stillbirths in Germany: On the Rise, but No Additional Increases During the First COVID-19 Lockdown. Poster presented in Session on “Mortality and Morbidity, COVID-19, Data and Methods”, at the **Annual Meeting of the Population Association of America**, Atlanta, USA, 08 April 2022
126. GEORG WENAU, PAVEL GRIGORIEV, ROLAND RAU, VLADIMIR M. M. SHKOLNIKOV (2021): Does place matter? Regional variation in the SES-mortality gradient among retired German men. Presented in Session 66: “Vulnerable Populations at Risk”, at the **29th IUSSP International Population Conference**, Online, December 2021
125. MARINA KOLOBOVA, DMITRI A. JDANOV, DOMANTAS JASILIONIS, VLADIMIR M. M. SHKOLNIKOV, ROLAND RAU (2021): Variation in burden of Covid-19 pandemic across the federal states in Germany: the role of reported morbidity and selected structural factors. Presented in Session 203: “Geographic Variations in Education and Health”, at the **29th IUSSP International Population Conference**, Online, December 2021
124. ROLAND RAU (2021): Demographische Entwicklung in Deutschland — Was bringt die Zukunft? **30. Kongress der Deutschen Gesellschaft für Perinatale Medizin** Online, 25 November 2021
123. ROLAND RAU (2021): Survival & Longevity — A Success Story. Presentation / Panel Discussion at Conference “Connecting minds across the ages”, organized by the **Northern Dimension Partnership in Public Health and Social Well-being (NDPHS)**, Online/Stockholm, 23 November 2021
122. ROLAND RAU (2021): Wie kann demografisches Wissen erfolgreich vermittelt werden?. **WDA Executive Workshop**, Lilienberg Konferenzzentrum, Ermatingen, Switzerland, 27.–28 September 2021
121. MARCUS EBELING, ROLAND RAU, EVA KIBELE, SEBASTIAN KLUESENER (2021): An Urban-Rural Old-Age Mortality Crossover: Evidence From Germany and England and Wales. Presented in Session on “Place and Health in Europe: Looking Across and Within Countries”, at the **Annual Meeting of the Population Association of America**, Online, 05 May 2021

120. ROLAND RAU (2020): Langlebigkeit: Was sind die aktuellen Trends bei der Lebenserwartung? **WDA Executive Workshop**, Zürich, Switzerland, 20 February 2020
119. ROLAND RAU, CARL P. SCHMERTMANN, SIDDARTHA, ARADHYA (2020): How does playing in the NFL affect your mortality risk? Seminar at the **Center for Demography & Population Health, Florida State University**, Tallahassee, FL, USA, 16 January 2020
118. ROLAND RAU (2019): Aktuelle Entwicklungen in der Lebenserwartung. 43. Herbsttagung der **Ost-deutsche Studiengruppe Hämatologie und Onkologie e.V.**, Rostock Germany, 08 November 2019
117. ANDREAS HÖHN, ANNA OKSUZYAN, RUNE LINDAHL-JACOBSEN, ROLAND RAU, KAARE CHRISTENSEN (2019): Who Will Be Waiting for Me in the Ward? Changes in the Age and Sex Composition of Hospital Patients in Denmark, 2014–2050. Poster presented in Session on “Health & Mortality & Aging”, at the **Annual Meeting of the Population Association of America**, Austin, USA, 12 April 2019
116. TORSTEN SAUER, ROLAND RAU (2019): Predicting Death Using Random Forests. Poster presented in Session on “Population, Development, & the Environment; Data & Methods; Applied Demography”, at the **Annual Meeting of the Population Association of America**, Austin, USA, 11 April 2019
115. MARCUS EBELING, SEBASTIAN KLÜSENER, ROLAND RAU, EVA KIBELE (2019): The effect of regional characteristics on the age pattern of mortality across German administrative districts. Presented at the **Annual Meeting of the German Demographic Society (DGD)**, Bamberg, Germany, 14 March 2019
114. ROLAND RAU, CARL SCHMERTMANN (2019): Schätzung der Lebenserwartung auf Landkreisebene. Preliminary Results. Presentation at the **University of Rostock** for Media Representatives, Rostock, Germany, 23 January 2019
113. ROLAND RAU (2019): Die Mathematik und Statistik hinter der Lebenserwartung. Lecture Series “Mathematics & Fairness”, University of Hamburg, Germany, 22 January 2019
112. ROLAND RAU (2018): Forecasting mortality: a never-ending challenge. Seminar on “Seminar on Population Projections and Demographic Trends”, **European Commission and eurostat**, Luxembourg, 13 November 2018
111. ROLAND RAU, MARCUS EBELING, KARIN MODIG, ANDERS AHLBOM (2018): Can Chronic Diseases Alter the Rate of Aging? **Annual Meeting of the Southern Demographic Association**, Durham, NC, USA, 11 October 2018.
110. ROLAND RAU (2018): Is There a Limit to Human Life Expectancy? **Institute of Social Sciences (ICS), University of Lisbon**, Portugal, 21 June 2018.
109. KAARE CHRISTENSEN, ANDREAS HÖHN, RUNE LINDAHL-JACOBSEN, ANNA OKSUZYAN, ROLAND RAU (2018): Sex differences in mean age at hospital admission by age and cause of hospitalization in Denmark 1995-2014. Presented in Session 80 “Health Dynamics”, at the **European Population Conference**, Brussels, Belgium, 08 June 2018
108. ROLAND RAU, MARCUS EBELING, KARIN MODIG, ANDERS AHLBOM (2018): Does a Severe Disease Such As Myocardial Infarction, Stroke or Diabetes Alter the Rate of Ageing? Presented in Session 80 “Health Dynamics”, at the **European Population Conference**, Brussels, Belgium, 08 June 2018
107. JOEL E. COHEN, MARCUS EBELING, TRIFON I. MISSOV, ROLAND RAU (2018): How Often Does the Oldest Person Alive Die? a Demographic Application of Queueing Theory. Presented in Session 34 “Methods in Health and Mortality”, at the **European Population Conference**, Brussels, Belgium, 07 June 2018
106. MARCUS EBELING, KARIN MODIG, ANDERS AHLBOM, ROLAND RAU (2018): Does a Severe Disease Such as Myocardial Infarction, Stroke, or Diabetes Alter the Rate of Ageing? Poster presented in Session on “Health and Mortality 2”, at the **Annual Meeting of the Population Association of America**, Denver, USA, 27 April 2018

105. ROLAND RAU, CARL P. SCHMERTMANN (2018): Bayesian Modeling of Small-Area Mortality With Relational Model Schedules and Spatially Varying Parameters. Presented in Session on “Spatial Approaches to Mortality”, at the **Annual Meeting of the Population Association of America**, Denver, USA, 26 April 2018
104. ROLAND RAU, MARCUS EBELING, TRIFON I. MISOV, JOEL E. COHEN (2018): How Often Does the Oldest Person Alive Die? A Demographic Application of Queueing Theory. Presented in Session on “Mathematical Demography”, at the **Annual Meeting of the Population Association of America**, Denver, USA, 26 April 2018
103. ANDREAS HÖHN, RUNE LINDAHL-JACOBSEN, ROLAND RAU, KAARE CHRISTENSEN, ANNA OKSUZYAN (2018): Sex Differences in Treatment-Seeking Behavior By Education and Marital Status before and After Admission to Hospital: A Register-Based Cohort Study of the Danish Population Aged 50+. Poster presented in Session on “Health and Mortality 1”, at the **Annual Meeting of the Population Association of America**, Denver, USA, 26 April 2018
102. FREDERIK PETERS, MARCUS EBELING, ROLAND RAU (2017): Uncovering a continuous advancement of human longevity. Accepted in Session: “Actual trends in mortality and life expectancy: Insights from around the globe”, at the **XXVIII IUSSP International Population Conference**, Cape Town, South Africa, 02 November 2017
101. KARIN MODIG, MARCUS EBELING, ANDERS AHLBOM, ROLAND RAU (2017): Rate of ageing. How do health shocks/diseases alter the rate of aging? Accepted in Session: “The use of biomarkers in demographic research”, at the **XXVIII IUSSP International Population Conference**, Cape Town, South Africa, 01 November 2017
100. MARCUS EBELING, FREDERIK PETERS, ROLAND RAU (2017): Quantifying the progress of mortality improvement: The concept of equivalent time. Accepted in Session: “Theoretical issues in health and mortality research”, at the **XXVIII IUSSP International Population Conference**, Cape Town, South Africa, 31 October 2017
99. ROLAND RAU, CARL SCHMERTMANN (2017): Bayesian Modeling of Small-Area Mortality with Relational Model Schedules and Spatially Varying Parameters. Accepted in Session: “Integrating spatial and statistical methods in demographic research”, at the **XXVIII IUSSP International Population Conference**, Cape Town, South Africa, 30 October 2017
98. JOEL E. COHEN, CHRISTINA BOHK-EWALD, ROLAND RAU (2017): Taylor’s law in mortality models of Gompertz, Makeham, and Siler. Accepted in Session: “Advances in mathematical and statistical demography”, at the **XXVIII IUSSP International Population Conference**, Cape Town, South Africa, 30 October 2017
97. ROLAND RAU, CARL SCHMERTMANN (2017): The challenges of estimating mortality in small areas — using German counties as a case study. Seminar at the **California Center for Population Research, UCLA**, Los Angeles, USA, 11 October 2017
96. FREDERIK PETERS, MARCUS EBELING, ROLAND RAU (2017): Uncovering a Continuous Advancement of Human Longevity. Presented in Session on “Differentials and Patterns in Life Expectancy”, at the **Annual Meeting of the Population Association of America**, Chicago, USA, 29 April 2017
95. ANDREAS HÖHN, LISBETH AAGAARD LARSEN, DANIEL C. SCHNEIDER, ROLAND RAU, RUNE LINDAHL-JACOBSEN, KAARE CHRISTENSEN, ANNA OKSUZYAN (2017): Should we be more worried when our fathers or our mothers get admitted to hospital? Sex differences in 1-year survival after the first admission to hospital at age 50+. Poster presented in Session on “Health and Mortality 2”, at the **Annual Meeting of the Population Association of America**, Chicago, USA, 28 April 2017
94. MARCUS EBELING, FREDERIK PETERS, ROLAND RAU (2017): Measuring the Lack of Progress: The Concept of Equivalent Time. Presented in Session on “Trends and Gaps in Life Expectancy”, at the **Annual Meeting of the Population Association of America**, Chicago, USA, 28 April 2017
93. ROLAND RAU, MARCUS EBELING, FREDERIK PETERS, CHRISTINA BOHK-EWALD, TRIFON I. MISOV (2017): Where is the level of the mortality plateau? Conference “**Living to 100**”, **Society of Actuaries**, Orlando, FL, USA, 04 January 2017

92. ROLAND RAU (2016): Sterblichkeit und Alterung aus demographischer Perspektive (In German. Mortality and aging from a demographic perspective). **ERMUR**, Rostock, Germany, 10 November 2016.
91. 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
90. 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
89. 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
88. CHRISTINA BOHK-EWALD, 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
87. 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
86. 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
85. 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
84. 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**)
83. 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
82. 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
81. 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
80. 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
79. 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
78. ROLAND RAU (2015): Challenges to Forecast Mortality. 10th Anniversary "Rostock Center for Demographic Change", Berlin, 12 Jan 2015

77. ROLAND RAU (2014): Der demografische Wandel in Deutschland unter besonderer Berücksichtigung der Mortalitätsentwicklung. **Ärzteversorgung Niedersachsen**, Hannover, Germany, 30 July 2014
76. ROLAND RAU (2014): Fachkräftebedarf und Demographischer Wandel (in German: Demand for Qualified Workers and Demographic Change. **Sächsische Aufbaubank**, Dresden, 20 June 2014
75. 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
74. 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
73. 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
72. 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
71. 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
70. 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
69. ROLAND RAU (2014): Visualizing Mortality Dynamics. “Brown-Bag Lunch Seminar”, Center for Demography & Population Health, **Florida State University**, 20 March 2014
68. 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
67. 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
66. 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
65. CHRISTINA BOHK ROLAND RAU (2013): Simultaneous Modeling of Heterogeneous Subpopulations within one Framework. Accepted in Session Session 17-07: “Advances in population projections” at the **XXVII IUSSP International Population Conference**, Busan, South Korea, August 2013
64. 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
63. MAGDALENA M. MUSZYŃSKA, ROLAND RAU (2013): The effect of early-life exposure to water-borne 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

62. 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
61. 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
60. 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
59. 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
58. 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)
57. CHRISTINA BOHK, ROLAND RAU (2012): Towards a Generalized Subpopulation Support for Stochastic Population Projections. Poster Presented at **Winter Simulation Conference**, Berlin, Germany, December 2012
56. 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
55. 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
54. 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
53. 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
52. ROLAND RAU (2011): Socioeconomic mortality differences at the highest ages. Invited Talk at **GenRe Reinsurance**, Cologne, Germany, 22 September 2011
51. 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)
50. 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
49. 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
48. 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
47. 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

46. 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)
45. ROLAND RAU (2010): The Life Expectancy Revolution and Its Consequences. Invited Talk at **GenRe Reinsurance**, Cologne, Germany, 28 September 2010
44. 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
43. 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)
42. 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
41. 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
40. 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)
39. 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
38. 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
37. 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
36. 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
35. 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)
34. 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)

33. 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)
32. 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
31. 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
30. 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
29. 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
28. 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
27. 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
26. 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
25. 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
24. 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
23. 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
22. 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
21. 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
20. ROLAND RAU (2006): NPST: A generalized non-parametric seasonality test. Presented at: **European Population Conference**, Liverpool, United Kingdom, 24 June 2006

19. 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
18. 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
17. 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
16. 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
15. 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
14. 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
13. GABRIELE DOBLHAMMER, ROLAND RAU, JOSEF KYTIR (2005): Gender specific trends in socio-economic 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
12. 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
11. ROLAND RAU (2005): The impact of socio-demographic factors on excess winter mortality in Denmark — a register data analysis. Presentation at: **15th Nordic Demographic Symposium**, Aalborg University, Aalborg, Denmark, 28–30 April 2005
10. 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
9. JUTTA GAMPE, ROLAND RAU (2004): Seasonal Variation in Death Counts: *P*-Spline Smoothing in the Presence of Overdispersion. Poster presented at the **19th International Workshop on Statistical Modelling**, Florence, Italy, July 2004
8. ROLAND RAU (2003): Seasonality in Mortality. Presentation during Lecture Series "New Directions in Mortality Research", **International Max Planck Research School for Demography**, Rostock, Germany
7. 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
6. 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

5. 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
4. 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
3. 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
2. 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
1. ROLAND RAU (2001): *Alters-, Perioden-, und Kohorteneffekte im Wahlverhalten*. Paper presented at **Infratest**, Munich, Germany, March 2001

9 Professional Activities

9.1 Reviewer for Funding Agencies

Alexander von Humboldt Foundation, BMBF (German Federal Ministry of Education and Research), Czech Science Foundation (GAČR), European Research Council, Fritz Thyssen Foundation, fwf, Austria (Fonds zur Förderung der wissenschaftlichen Forschung), German-Israeli Foundation for Scientific Research and Development, Israel Science Foundation, Studienstiftung des deutschen Volkes, Swiss National Science Foundation

9.2 Reviewer for Journals

Advances in Life Course Research, BMC Public Health, American Journal of Epidemiology, British Medical Journal, Bundesgesundheitsblatt, Canadian Studies in Population, Comparative Population Studies, Demographic Research, Demographic Research Monographs (Springer), Demography, Deutsches Ärzteblatt, European Journal of Epidemiology, European Journal of Population, Frontiers in Public Health, Genus, Human Biology, International Journal of Environmental Research and Public Health, International Journal of Epidemiology, Journal of Applied Mathematics and Computing, Journal of Epidemiology and Community Health, Journal of Gerontology: Biological Sciences, Journal of Internal Medicine, Journal of Official Statistics, Journal of Population Ageing, Mechanisms of Ageing and Development, Naturwissenschaften, Population & Development Review, Population Health Metrics, Population Studies, PLoS ONE, Proceedings of the National Academy of Sciences (PNAS), Social Science & Medicine, Statistische Nachrichten of Statistics Austria, Vienna Yearbook of Population Research

9.3 Further Academic Service

- Member of Mindel C. Sheps Award Committee, Population Association of America (2026–, jointly with Adrian Raftery, Josh Goldstein, Noreen Goldman, Scott Lynch, Kenneth Land, Irma Elo)
- Editor Comparative Population Studies, CPoS (2024–, jointly with Heike Trappe)
- Associate Editor for European Journal of Population (2015–2023)
- Associate Editor for Genus (2010–2023)
- Member of Board of Trustees ("Kuratorium"), Federal Institute for Population Research, Wiesbaden, Germany (2018–)
- Member of Scientific Board, European Doctoral School of Demography (2010–)
- Chair of Working Group "Demographic Methods", German Demographic Society (2016–2022)

9.4 Professional Affiliations

Population Association of America (PAA), European Association for Population Studies (EAPS), International Union for the Scientific Study of Population (IUSSP), German Demographic Society (DGD)

10 Policy-Relevant Activities

- Representative for Europe, **Global Longevity Council**, 2021–2023
- 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
- Editor-in-Chief for **Demographic Newsletter** “Demographische Forschung aus Erster Hand” (2012–2019)
- Expert Panel on Population Projections, **German Federal Statistical Office**, Wiesbaden, Germany
- Expert panel on life table estimation. **German Federal Statistical Office**, Wiesbaden, Germany
- Member of an Expert Panel of the **German Federal Ministry of Education and Research** to identify key themes in the Social & Economic Sciences and the Humanities for the Research Frameworks of the European Union (2010, 2021)
- Invited speaker for panel discussion “‘Fighting ageism: transforming public attitudes and addressing ageism in healthcare and at the workplace’” at the annual conference of the **NDPHS Partnership** (Northern Dimension Partnership in Public Health and Social Well-being)
- Member of Expert Panel on Future Trends in Demography, **RAND Europe** (2013)
- Steering Committee “Sustainable Development Goals and the Role of Research: A Focus on Coastal Regions”, **Volkswagen Foundation** (2015)
- Steering Committee of Winter School “Limits to Growth Revisited”, **Volkswagen Foundation** (2012).
- Member of Council of Advisors of **Population Europe** (2012–)

11 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 the winter terms 2012/2013 and the summer terms 2012, 2017 & 2018.
- More than 3200 classroom hours of teaching experience at the BA, MA, and doctoral level (not included: various guest lectures)
- Courses at the University of Rostock include (BA & MA, 2009–): Survival Analysis, Cancer Mortality in the United States, Introduction to Demography, Formal Demography, Analysis of Mortality, Migration & Forecasting, Introduction to Programming in Demography (in R), Introduction to Applied Statistical Learning in R for Demographers and Social Scientists, and “Introduction to Demography and Aging Research” at the Medical School.
- Courses at Max Planck Research Schools include (doctoral students, 2004–2006, occasionally since 2009): Introduction to programming with R, Survival Analysis, various seminars on stable and non-stable populations, old-age mortality, and seasonal mortality.
- Course at the University of Stockholm (MA, 2008): Basic methods and current issues in mortality research

12 Thesis Supervision

- External evaluator of 1 habilitation (Jonas Klingwort, University of Duisburg-Essen)
- Supervisor/evaluator of 19 doctoral dissertations.
- Supervisor/evaluator of 66 Master theses (11 October 2026)
- Supervisor/evaluator of 80 Bachelor theses (11 October 2026)

13 Service at the University of Rostock

- Dean of Studies ("Studiendekan", 2025–), Faculty of Economic & Social Sciences
- Elected Member, Faculty Council (2010–2012, 2014–2016, 2018–2021, 2021–2023, 2023–2025, 2025–)
- (Inaugural) Director of MSc "Demography & Sociology" Program (June 2025–)
- Director of MSc "Demography" Program (since January 2012)
- Chair of the Department of Sociology and Demography (2012–2017, 2021–2023)
- Elected Member, University Council (2016–2018, 2018–2021, 2021–2023, 2023–2025)
- Ombudsperson for the Social Sciences and Humanities (2019–2022)
- Joachim-Jungius-Award, Member of Jury (2021)
- Appointed Member of Senate Commission on Research (2012–2014)
- Chair of Appointment Committee for W1-Professorship in Demography (2018–2019)
- Chair of Appointment Committee for W1-Professorship in Computational Social Science (2023–2025)
- Graduate Studies Council (2010–2014)
- Examinations Board, (2009–2012, 2017–2025) for BA Social Science, MSc Demography, MA Sociology, MA Economics
- Chair of Evaluation Committee Assistant Professorship Demography
- Member of Appointment Committees for Professorships: Mathematical Demography (2010, "Junior-professur"), Demography (2011/2012, "Juniorprofessur"), Political Science (2012), Political Science (2017), Political Science (2019/2020), Sociology (2019/2020), Sociology (2021/2022), Computer Science (2021/2022)

14 Media Experience

Extensive media experience. For instance, more than 380 media covered the paper on life expectancy on the district level in Germany with many direct interviews (Die ZEIT, Süddeutsche Zeitung, FAZ, ...). But also previous research results were featured in many media (selection):

Print: Washington Post, The Globe & Mail, 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, Nordkurier, Focus, Mannheimer Morgen, BILD, BamS

Radio: Deutschlandradio, Deutsche Welle, Bayerischer Rundfunk

TV: RTL, NDR, mdr, Pro 7 (expert for feature on life expectancy in program *Galileo*)

Indirect (research cited without interview, selection): ABC, BBC, CBC, The Guardian, Hamburger Abendblatt, Deutschlandfunk, Rheinpfalz, 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 3.11)
 - Office-Software: MS Word, MS Excel, MS Powerpoint, OpenOffice.org, LibreOffice
 - Editors: Emacs/XEmacs, WinEdt, vi
 - Typesetting: L^AT_EX
 - 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