

Chair of Economic History
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Present position

Professor of Economic History, Dept. Economics, Univ. Tuebingen.
 CEPR Fellow. CESifo Fellow.
 Co-editor-in-Chief, *Economics and Human Biology*.
 Executive Committee Member of the International Economic History Association (IEHA).

Education

- 2001 Habilitation (the German "second Ph.D.") in Economics at University of München.
 Topic: "*The Creation, Productivity, and Success of Firms in Germany, 1878-1914*"
- 1997 Doctoral dissertation in Economics (University of München). Topic: "Nutrition and
 Economic Development in Bavaria, 1730-1880". Fields of specialization: Economic
 History, and Econometrics
- 1991 Master of Arts, Economic History, University of Freiburg, Germany

Previous affiliations

- 2015 March/April: Visiting Research Fellow, Australian National Univ., Canberra
- 2008 May/June: CESifo visitor, Univ. Munich
- 2003-2008 Board Member of the Institute for Applied Economic Research (IAW).
- 2006/07 Visiting Professor, Univ. Pompeu Fabra
- 2005 mid-February to mid-April: Research Fellow, Yale University, YCIAS-Leitner
- 2004-2006 Dean of the Economics Faculty
- 2003-2004 Vice-Dean and Director of the Economics Faculty (*Seminardirektor*)
- 2001, since Professor and Chair of Economic History, Univ. Tuebingen
- 2000-2001 Visiting Professor, Economic Dept., Univ. Tuebingen.
- 1993-2000 Assistant Lecturer and Research Associate, Department of Economics, University of
 Munich.
- 1993 Free-lance Author for the "Haus der Geschichte der Bundesrepublik
 Deutschland" (Museum for German Contemporary History, Bonn, Germany)
- 1992 Research Assistant at the DFG Research Project 'German Historical Statistics'
- 1990-91 Undergraduate Research Assistant at the DFG Research Project 'German Historical
 Statistics', University of Freiburg, Germany
- 1988-90 Undergraduate Teaching Assistant at the Institute for Computer Science, University of
 Freiburg, Germany
- 1986-89 Undergraduate Teaching Assistant at the Institute for Economic History, University of
 Freiburg, Germany

Research interests

Four broad themes characterize my research during the last years: the econometric history of firms and innovations, the study of welfare development and growth in economies around the world, the long-run development of education and human capital in global perspective, and the determinants and effects of interpersonal violence. The first area of research is based on the idea of creating the world's largest database on the econometric history of firms, 1870-1920. It contains data on profits, capital stocks and other variables of some 19,000 firms (in many cases observed over time). Matched with a sample of 39,000 important patents, we studied the firm creation process and the management strategies that led to innovative and entrepreneurial success.

In the second area of research, I have made extensive use of new anthropometric techniques that allow the study of phenomena, periods and countries that were not previously studied because of insufficient data, also taking care of potential issues of sample selection bias, of course. Important questions that could be answered include the impact of globalization and market integration on inequality and human capital formation. Such questions have important policy implications for today. Recent studies expand the database to countries in the Middle East, Africa, Latin America and other world regions. For example, with Jan Luiten van Zanden (U Utrecht) and other colleagues, we have traced and explained the development of global inequality, which resulted in a volume published by the OECD in 2014, and a large internet database. Jointly with a number of colleagues (and coordinated in the archaeology department by our speaker Martin Bartelheim), we have raised a 20 million Euro grant (in 2013 and 2017) to study 'ResourceCultures' and their interaction with human welfare. This resulted also in a large-scale project with Rick Steckel, Clark Larsen, Charlotte Roberts and others on health, nutrition, violence and work load in the last two millennia.

Thirdly, I am studying the long-run development of education and human capital in long-run perspective, with a special focus on numeracy. For this end, I am making use of the age heaping strategy to approximate numeracy, including many countries in the Middle East, Africa, East Asia, and Latin America. This project has stimulated a large number of colleagues to use our research tool for studying global economic development. One example is the joint project with my former doctoral student Dorothee Crayen and Joachim Voth (Univ. Pompeu Fabra) on the 'natural experiment' of blockade-induced, abnormally high grain prices and the effects on cognitive abilities in England around 1800, which has been published by the Review of Economics and Statistics in 2014.

Fourth, and most recently, I consider determinants and effects of interpersonal violence in global perspective: what encourages violence, and what hinders it? When did the long-term decrease of homicide occur, and why? Do the differences of interpersonal violence have effects on trust-based institutions and hence on economic growth?

All four topics form the base of the global economic history book project that I have recently edited. It will be the first joint study of scholars from all continents on global economic history.

Publications

a) Books and edited volumes (partly forthcoming)

The Backbone of Europe: Health, Diet, Work and Violence over Two Millennia (2019), edited with Richard Steckel (1st), Clark S. Larsen (2nd), and Charlotte Roberts (3rd) (Cambridge University Press).

A History of the Global Economy: 1500 to the Present (2016, an edited volume with 31 contributions by 27 authors, in cooperation with the International Economic History Association, Cambridge University Press).

Economics, Health and Pandemics (2021), with Susan Averett and Pinka Chatterji (eds.). A special issue of the Economics and Human Biology Journal. Elsevier, Amsterdam.

How Was Life? Global Well-being since 1820 (2014), with Jan Luiten van Zanden, Marco Mira d'Hercole, Auke Rijpma, Conal Smith, Marcel Timmer (eds.)). OECD, Paris.

Economics and Human Biology – special issue on “The Long-Run Development of Anthropometric Welfare in Latin America” (2010), with Scott Carson (eds.).

Social Science History – special issue on “Anthropometric History” (2004), with John Komlos (eds.).

Ernährung und wirtschaftliche Entwicklung in Bayern, 1730-1880. Stuttgart (1999). [Nutrition and Economic Development in Bavaria, 1730-1880, English translation in progress.] Received the International Economic History Association Prize 2002 and the Alumni Dissertation price 1998.

The Biological Standard of Living in Comparative Perspective, with John Komlos (eds.). Stuttgart 1998.

Wirtschaftsstruktur und Ernährungslage 1750-1850, with Markus A. Denzel (eds.), St. Katharinen: Scripta Mercaturae Verlag, 1997. [Economic Structure and Nutritional Status]

b) Publications in Refereed Journals (partly forthcoming, total 94)

“Violence trends in the ancient Middle East between 12,000 and 400 BCE,” with Giacomo Benati and Arkadiusz Sołtysiak, *Nature Human Behaviour* (2023, impact factor 29.9). DOI: [10.1038/s41562-023-01700-y](https://doi.org/10.1038/s41562-023-01700-y)

“Measuring Multidimensional Inequality and its Impact on Civil War Outbreak in 193 Countries, 1810 to 2010”, with Laura Radatz (1st), *Review of Income and Wealth* (forthcoming).

“Health Insurance and Height Inequality: Evidence from European Health Insurance Expansions”, with Alberto Batinti, Joan Costa-Font and Laura Radatz, *Socio-Economic Planning Sciences* (forthcoming, Impact Factor: 6.1, open access), <https://doi.org/10.1016/j.seps.2024.101905>

“Nutrition Matters: Numeracy, Child Nutrition and Schooling Efficiency in Sub-Saharan Africa in the Long Run,” with Sarah Ferber (1st), *Journal of Development Studies* (forthcoming). <https://doi.org/10.1080/00220388.2024.2322974> Older version: CEPR Discussion Paper 16967.

“Bioarchaeological data reveal cycles of violence in the ancient Middle East: Research Briefing” with Giacomo Benati, *Nature Human Behaviour* (2023). <https://doi.org/10.1038/s41562-023-01701-x>

“Leader selection and why it matters: Education and the endogeneity of favouritism in 11 African countries”, with Laura Maravall (1st) and Johan Fourie, *Review of Development Studies* 27 (2023), pp. 1562–1604. <https://doi.org/10.1111/rode.12981>

“Gender (in)equality, maritime economies, and numeracy development in Greece during the 19th and 20th century“, with Kleoniki Alexopoulou (1st), *Journal of Industrial History* 32(89) (2023), 27-64. DOI: <https://doi.org/10.1344/rhihr.40926>

“Female Autonomy Generated Successful Long-term Human Capital Development: Evidence from 16th to 19th Century Europe” (with Alexandra M. de Pleijt), *World Development* 158 (2022), 105999, pp.1-17 <https://doi.org/10.1016/j.worlddev.2022.105999> older version CEPR Working Paper 13348.

“Inequality and Life Expectancy in Africa and Asia, 1820-2000” with Lisa Martin (1st) *Journal of Economic Behaviour and Organization* 201 (2022), 40-59. <https://doi.org/10.1016/j.jebo.2022.07.017>

“Elite violence and elite numeracy in Africa from 1400 CE to 1950 CE”, with Kleoniki Alexopoulou, *European Review of Economic History* 26-2 (2022), 155-184. <https://doi.org/10.1093/ereh/heab013>

“Territorial State Capacity and Elite Violence from the 6th to the 19th century”, with Thomas Keywood and Georg Wamser, *European Journal of Political Economy* 70, 102037 (2022). <https://doi.org/10.1016/j.ejpoleco.2021.102037>

“Age heaping and life course reckoning: Individual-level evidence from Spanish Inquisition records”, with Sarah Nalle, *Journal of Social and Economic History* (Vierteljahrsschrift für Sozial- und Wirtschaftsgeschichte 109(3), 2022, pp. 337-350.

“Numeracy development in Africa: new evidence from a long-term perspective (1730-1970)”, with

Gabriele Cappelli (1st), *Journal of Development Economics* 150 (2021), 102630. Online: <https://doi.org/10.1016/j.jdeveco.2021.102630> Older version: CEPR Working Paper 11273.

“Educational Gender Inequality in Sub-Saharan Africa: a Long-term Perspective”, with Michiel de Haas, Elisabeth Kempter, Felix Meier zu Selhausen, in *Population and Development Review* 47(3), 2021, 813-849. doi.org/10.1111/padr.12430

“Inequality, Low-Intensity Immigration and Human Capital Formation in the Regions of Chile, 1820-1939”, with Manuel Llorca-Jaña, in *Economics and Human Biology* 43 (2021), 101030. <https://doi.org/10.1016/j.ehb.2021.101030>

“The Influence of Colonialism on Africa’s Welfare: An Anthropometric Study”, with Laura Maravall, *Journal of Comparative Economics* 49-3 (2021), 751-775. <https://doi.org/10.1016/j.jce.2021.01.001>.

“Elite Violence and Elite Numeracy in Europe from 500 to 1900 CE: Roots of the Divergence” with Thomas Keywood (1st), *Cliometrica* 15 (2021), pp. 319–389, published online 2020, <https://doi.org/10.1007/s11698-020-00206-1>. Older version: CEPR Working Paper 14013.

“Land inequality and Numeracy in Spain during the seventeenth and eighteenth century”, with Mari Carmen Pérez-Artés (1st), *Historia Agraria* 83 (2021), 7-39.

“Rethinking Age-Heaping again for understanding its possibilities and limitations”, with Giacomo Benati and Sarah Ferber, *Economic History Review* 75(3) (2022), 960-971. <https://doi.org/10.1111/ehr.13139>

“Valkyries: Was gender equality high in the Scandinavian periphery since Viking times? Evidence from enamel hypoplasia and height ratios.” with Laura Maravall, *Economics and Human Biology* 34 (2019), 181-193. <https://doi.org/10.1016/j.ehb.2019.05.007>.

“Height Development of Men and Women from China, South Korea, and Taiwan during the Rapid Economic Transformation Period of the 1960s to 1980s” with Daniel Schwegendiek, *Economics and Human Biology* 34 (2019), 169-180 <https://doi.org/10.1016/j.ehb.2019.04.005>

“The Human Capital of Religious Minorities in Spain and Portugal during the Inquisition Era”, with Dácil Juif and Mari Carmen Pérez Artés, in *Revista de Historia Económica -- Journal of Iberian and Latin American Economic History* 38-1 (2020), 147-184 doi.org/10.1017/S021261091900034X).

“Introduction to the Special Issue in Honor of John Komlos, the Founding Editor of *Economics and Human Biology*”, with Inas Kelly, *Economics and Human Biology* 34 (2019) 1-4 doi: 10.1016/j.ehb.2019.07.002.

“Geography, Land Inequality and Regional Numeracy in Europe in Historical Perspective (with Ralph Hippe), *Journal of Economic Growth* 23-1 (2018) DOI 10.1007/s10887-017-9151-1, pp. 79-109.

“Compulsory licensing and innovation – Historical evidence from German patents after WWI”, with Petra Moser and Nicola Bianchi, *Journal of Development Economics* 126 (2017): 231-242. Older version: NBER Working Paper.

“Institutional Quality, Cash-Crop Farming, Colonialism and Early Numeracy Development in West Africa, 18th to early 20th Century”, with Gabriele Cappelli (1st), *Journal of Economic History* 77(3), 2017: 920-951. Older version: CESifo Working Paper, No. 6468

“Farmers at the Heart of the “Human Capital Revolution”? Decomposing the Numeracy Increase in Early Modern Europe”, with Franziska Tollnek (1st), *Economic History Review* 70-3 (2017), pp. 779-809 10.1111/efhr.12382. Older version: EHES Working Papers in Economic History 33

“Numeracy in Early Modern Korea, Japan, and China: the Age-Heaping Approach”, with Kitae Sohn, *Japan and the World Economy* 43 (2017), pp. 14-22. Older version: CEPR Working Paper 991.

“‘Girl Power’ in Eastern Europe? The Human Capital Development of Central-Eastern and Eastern Europe in the Seventeenth to Nineteenth Centuries and Its Determinants”, with Mikołaj Szoltysek (2nd) and Monica Campestrini, *European Review of Economic History* 21-1 (2017), 29-63. Older version MPIDR Rostock Working Paper 2012-2.

“Economics, Human Biology and Inequality: a review of “puzzles” and recent contributions from a Deatonian perspective” *Economics and Human Biology* 2017, (2017), 3–8

“Numeracy of Africans, Asians, and Europeans during the Early Modern Period: New Evidence from Cape Colony Court Registers” (with Johan Fourie), *Economic History Review* 68, 2 (2015), pp. 632–656. Older Version “Numeracy in the 18th Century Indian Ocean Region”: ERSA Working Paper No. 270

“Social and Intertemporal Differences of Basic Numeracy in Pannonia (1st Century BCE- 3rd Century CE)”, with Stefan Priwitzer, *Scandinavian Economic History Review* 63-2 (2015), 110-34.

“Numeracy and the Impact of High Food Prices in Industrializing Britain, 1780-1850”, with Dorothee Crayen and Hans-Joachim Voth, *Review of Economics and Statistics* 96:3 (July 2014), 418-430. Older Version: Universidad Pompeu Fabra Economic Working Paper No. 1120

“A Story of Large Land-Owners and Math Skills: Inequality and Human Capital Formation in Long-Run Development, 1820-2000” with Dácil Juif, *Journal of Comparative Economics* 42-2 (2014), 375-401.

“The Changing Shape of Global Inequality 1820-2000. Exploring a New Dataset” with Jan Luiten van Zanden (1st), Péter Földvari, and Bas van Leeuwen, *Review of Income and Wealth* 60-2 (2014), 279-297. Older version: CGEH Working Paper 0001.

“Does Inequality Lead to Civil Wars? A global long-term study using anthropometric indicators (1816-1999)” with Christina Mumme, *European Review of Political Economy* 32 (2014), 56-79.

“Why are you tall while others are short? Agricultural production and other proximate determinants of global heights”, with Matthias Blum, *European Review of Economic History* 18 (2014), 144–165.

„War der Adel eine Elitegruppe? Die 'Numeracy' verschiedener Sozialgruppen im Georgien des 19. Jahrhunderts“ [Was the Nobility an Elite Group? Numeracy of Social Groups in Georgia during the 19th Century], with Tinatin Sirbiladze, *Journal of Social and Economic History (= Vierteljahrsschrift fuer Sozial- und Wirtschaftsgeschichte)* 101-2(2014), 125-138. Older version: Tübingen Working Papers in Economics and Finance 27. V.

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“The Biological Standard of Living and Body Height in Colonial and Post-colonial Indonesia, 1770–2000”, with Mojgan Stegl and Pierre van der Eng, *Journal of Bioeconomics* 15 (2013): 103-122. Doi: 10.1007/s10818-012-9144-2; Older Version: ANU Working Papers in Economics and Econometrics 2010-514. V

“Big is beautiful? Productivité des entreprises en fonction de leur taille en Allemagne et aux États-Unis au tournant du XXe siècle, *Histoire, Économie, Société* 13-1 (2013), pp. 45-52 [Were large firms more productive than small firms around 1900?].

“Growth effects of 19th century mass migrations: “Fome Zero” for Brazil?” (with Yvonne Stolz (1st) and Tarcisio Botelho) *European Review of Economic History* 17-1 (2013), pp. 95-121. Older version: Tübingen Working Papers in Economics and Finance 2. V.

“Brain Drain in the Age of Mass Migration: Does Relative Inequality Explain Migrant Selectivity?”, with Yvonne Stolz (1st), *Explorations in Economic History* 49 (2012), pp. 205-20. Older Version: CESifo Working Paper No. 3705. V.

“The Biological Standard of Living in Early 19th Century West Africa: New Anthropometric Evidence for Northern Ghana and Burkina Faso”, with Gareth Austin and Bas van Leeuwen, *Economic History*

Review 65-4 (2012), pp. 1280–1302.

“Convergence and Divergence of Numeracy: The Development of Age Heaping in Latin America, 17th to 20th Century”, with Kerstin Manzel (1st) and Yvonne Stolz, *Economic History Review* 65, 3 (2012), pp. 932–960.

“The Early Regional Development of Human Capital in Europe, 1790 – 1880, with Ralph Hippe (1st), *Scandinavian Economic History Review* (2012), 60, Number 3, 1 November 2012 , pp. 254-289 [this article did win a best-article prize of the SEHR] Older Version: AFC Working Papers 11-07. V.

“On the Status and the Future of Economic History in the World”, with Julia Muschallik, *Economic History of Developing Regions* 27 (2012), pp. 93-113. Older Version: MPRA Paper 34704. V.

“Growing Taller, but Unequal: Biological Well-Being in World Regions and Its Determinants, 1810-1989, with Matthias Blum, *Economic History of Developing Regions* 27 (2012), pp.S66-S85. V.

“An Anthropometric History of the World, 1810-1980: Did Migration and Globalization Influence Country Trends?” with Matthias Blum, *Journal of Anthropological Sciences* 90 (2012) 221-4. doi: 10.4436/jass.90011. v.

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“Evolution of Living Standards and Human Capital in China in the 18-20th Centuries: Evidences from Real Wages, Age-heaping, and Anthropometrics” with Debin Ma, Stephen Morgan and Qing Wang, *Explorations in Economic History* 47-3 (2010): 347-359. <http://dx.doi.org/10.1016/j.eeh.2009.09.003>; This article in Chinese in Qishi Rencong (Review of Qing History) 2011, pp. 326-345. Older Version: LSE Economic History Working Paper No. 27870

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"Protein Supply and Nutritional Status in Nineteenth Century Bavaria, Prussia and France", *Economics and Human Biology* 7-2 (2009), pp. 165-180.

"Tall and Shrinking Muslims, Short and Growing Europeans: an Anthropometric History of the Middle East, 1840-2007" with Mojgan Stegl (1st), *Explorations in Economic History* 46 (2009), pp. 132-148.

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„Zahlenfaehigkeit und Zahlendisziplin in Nord- und Westdeutschland, 16.-18. Jahrhundert" (with Dorothee Crayen and Kerstin Manzel), in *Jahrbuch fuer Wirtschaftsgeschichte* (2008), 217-229 [Numeracy and Number Discipline in Northern and Western Germany, 16th-18th Centuries]

"What made southwest German firms innovative around 1900? Assessing the importance of intra- and inter-industry externalities," with Anna Spadavecchia, Jochen Streb, Shuxi Yin, *Oxford Economic Papers* 59-1 (2007), supplementary issue, pp. i105-i126.

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"Making Profits in War-Time: Corporate Profits, Inequality, and GDP in Germany During WWI," with Rainer Schulz, in *Economic History Review* LVIII-1 (2005), pp. 34-56.

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"Looking Backward and Looking Forward: Anthropometric Research and the Development of Social Science History," (with John Komlos), in *Social Science History* (2004), 2004 28(2): 191-210, also as working paper: Muenchner Wirtschaftswissenschaftliche Beitrage 2003-15.

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"Mangelernährung, Krankheit und Sterblichkeit im NS-Aufschwung, 1933-37," with Andrea Wagner, in *Jahrbuch fuer Wirtschaftsgeschichte* 2003-2, pp. 99-123. [Malnutrition, Disease and Mortality during the Nazi Recovery]

"Climate, Grain Production and Nutritional Status in 18th Century Southern Germany" in *Journal of European Economic History* 30-1 (2002), pp. 9-47.

"Heights of Men and Women in Nineteenth Century Bavaria: Economic, Nutritional, and Disease Influences," with John Murray, in *Explorations in Economic History* 37 (2000), pp. 351-369.

"Economic Development and the Distribution of Nutritional Resources in Bavaria, 1797-1839," in *Journal of Income Distribution* 9 (2000), pp. 89-106

"Heights and real wages in the 18th and 19th centuries: an international Overview" in *Jahrbuch fuer Wirtschaftsgeschichte* 2000-1, pp. 17-32.

"Smallpox and Nutritional Status in England, 1770-1873: On the Difficulties of Estimating Historical Heights", with Markus Heintel, *Economic History Review* 51-2 (1998), pp. 360-371.

"Women's Stature and Marriage Markets in Pre-Industrial Bavaria", with John Murray, *Journal of Family History* 23-2 (1998), pp. 124-135

"Height and the Standard of Living", with John Komlos (a review essay), *Journal of Economic History* 57, No. 3 (1998), pp. 866-870.

"Biologischer Lebensstandard und wirtschaftliche Entwicklung: Anthropometrische Indikatoren, Ernaehrung, Gesundheit und Wohlfahrt in historischer Perspektive" *Jahrbuch fuer Wirtschaftsgeschichte* 1997-2, pp. 219-226. [Biological Standard of Living and Economic Development: Anthropometric Indicators, Nutrition, Health, and Welfare in Historical Perspective]

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"Der Einfluß von Einkommensverteilung und Milchproduktion auf die regionalen Unterschiede des Ernährungsstandards in Preussen um die Mitte des 19. Jahrhunderts: Ein anthropometrischer Diskussionsbeitrag", *Archiv fuer Sozialgeschichte* 36 (1996), pp. 69-83. [Income Distribution, Milk Production and Heights in Prussia]

"Zum Problem der Verteilungen mit Shortfall bei der Nutzung des Indikators 'Durchschnittliche Körpergröße'," with Markus Heintel, *Historical Social Research* Vol. 16 (1995), No. 4, pp. 135-155. [Height Distributions with Shortfall]

"Regionale Wirtschaftsentwicklung, öffentliche Elektrizitätswirtschaft und Erster Weltkrieg in Baden und Württemberg: Ein quantitativ-graphischer Vergleich," *Historical Social Research* Vol. 16 (1991), No. 3, pp. 69-112. [Regional Economic Development, Electric Utilities, and the First World War in

Southwest Germany]

c) Publications in Scholarly Journals and Edited Volumes (partly forthcoming, partly refereed, total 30)

“Age-Heaping-Based Human Capital Estimates,” with Tollnek, Franziska (1st), in Diebolt, Claude, Hauptert, Michael (Eds.): *Handbook of Cliometrics*, Berlin/Heidelberg: Springer, 2024 (third edition), 563-587.

“The History of Violence in Europe: Evidence from Cranial and Postcranial Bone Traumata” with Richard Steckel, in Richard Steckel et al., *The Backbone of Europe: Health, Diet, Work and Violence over Two Millennia* (Cambridge et al.: Cambridge University Press, 2019), pp. 300-324.

“Agricultural Specialization, Urbanization, Workload and Stature” with Nicholas Meinzer and Richard Steckel, in Richard Steckel et al., *The Backbone of Europe: Health, Diet, Work and Violence over Two Millennia* (Cambridge et al.: Cambridge University Press, 2019), pp. 231-252.

“Growth disruption in children: Linear enamel hypoplasias” with Zsolt Bereczki, Zsolt Bereczki, Maria Teschler-Nicola, Antonia Marcsik, Nicholas J. Meinzer, in Richard Steckel et al., *The Backbone of Europe: Health, Diet, Work and Violence over Two Millennia* (Cambridge et al.: Cambridge University Press, 2019), pp. 175-197.

“Multidimensional Patterns of European Health, Work, and Violence over the Past Two Millennia” with Richard Steckel, Clark Spencer Larsen, Charlotte Roberts, in Richard Steckel et al., *The Backbone of Europe: Health, Diet, Work and Violence over Two Millennia* (Cambridge et al.: Cambridge University Press, 2019), pp. 381-396.

“The European History of Health Project: Introduction to Goals, Materials, and Methods” with Richard Steckel, Clark Spencer Larsen, Charlotte Roberts, in Richard Steckel et al., *The Backbone of Europe: Health, Diet, Work and Violence over Two Millennia* (Cambridge et al.: Cambridge University Press, 2019), pp. 1-10

“Historical Perspectives on Global Inequality. A Review Essay” (2018), *Journal of Social and Economic History* (=Vierteljahrschrift fuer Sozial- und Wirtschaftsgeschichte).

“Global perspectives on economics and biology”, with Nicholas Meinzer, in Komlos, John and Inas Kelly (eds.), *The Oxford Handbook of Economics and Human Biology*, Oxford: OUP, 2016, 344-67.

“Age-Heaping-Based Human Capital Estimates,” with Tollnek, Franziska (1st), in Diebolt, Claude, Hauptert, Michael (Eds.): *Handbook of Cliometrics*, Berlin/Heidelberg: Springer, 2016, 131-154.

“The Middle East and Central Asia 1500-2010”, with Rima Ghanem, in Baten, J. (ed.), *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press), 208-239.

“Southern, Eastern and Central Europe 1500-2010” in Baten, J. (ed.), *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press), 42-73.

“A History of the Global Economy – the ‘Why’ and the ‘How’”, in Baten, J. (ed.), *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press). 1-12.

“The Sputnik Shock, the Pisa Shock: Human Capital as a Global Growth Determinant,” in Baten, J. (ed.), *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press). 74-78.

“Was There a ‘Curse of Natural Resources’?” in Baten, J. (ed.), *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press), 158-162.

“Latin America 1500-1800: Early Contact, Epidemics, and Numeracy Development,” in Baten, J. (ed.), *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press), 163-164.

"Institutional Development in World Economic History," in Baten, J. (ed.), *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press). 310-318.

"Human Stature as a Health Indicator in Colonial Empires," with Kris Inwood, in Baten, J. (ed.), *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press), 274-278.

"Human Height", with Matthias Blum (2014) in Jan Luiten van Zanden, Joerg Baten, Marco Mira d'Hercole, Auke Rijpma, Conal Smith, Marcel Timmer (eds.), *How Was Life? Global Well-being since 1820*. OECD, Paris, 117-138.

"Personal Security since 1820", with Winnie Bierman, Péter Földvari and Jan Luiten van Zanden (2014) in Jan Luiten van Zanden, Joerg Baten, Marco Mira d'Hercole, Auke Rijpma, Conal Smith, Marcel Timmer (eds.), *How Was Life? Global Well-being since 1820*. OECD, Paris, 139-158.

"Income inequality since 1820", with Mikolai Moatsos, Jan Luiten van Zanden, Péter Földvari and Bas van Leeuwen (2014) in Jan Luiten van Zanden, Joerg Baten, Marco Mira d'Hercole, Auke Rijpma, Conal Smith, Marcel Timmer (eds.), *How Was Life? Global Well-being since 1820*. OECD, Paris, 199-211.

"Introduction", with Jan Luiten van Zanden, Marco Mira d'Hercole, Auke Rijpma, Marcel Timmer (2014) in Jan Luiten van Zanden, Joerg Baten, Marco Mira d'Hercole, Auke Rijpma, Conal Smith, Marcel Timmer (eds.), *How Was Life? Global Well-being since 1820*. OECD, Paris, 23-36.

"Regional Determinants of Firm Creation in the Russian Empire. Evidence from the 1870 Industrial Exhibition" with Dominic Behle, in *Russian Economic History Yearbook* (2010) [in Russian].

"Population and Living Standards 1914-45" (with Robert Millward), in: *Cambridge Economic History of Modern Europe*, ed. S. Broadberry and K. O'Rourke, Cambridge: C.U.P. (2010), pp. 232-263, ISBN 978-0-521-88202-6.

„Measuring Gender Well-Being with Biological Welfare Indicators" with Aravinda Guntupalli, in Bernard Harris, Lina Galvéz and Helena Machado (eds.), *Gender and Well-Being in Europe. Historical and Contemporary Perspectives*. Ashgate: Farnham, 2009, pp. 59-84. ISBN 978 0 7546 7264 7.

„Was machte südwestdeutsche Unternehmen innovativ? Intra- und interindustrielle Externalitäten um 1900", with Anna Spadavecchia and Jochen Streb, in Gert Kollmer-von Oheimb-Loup and Jochen Streb (eds.), *Finanzierung von Innovationen*, Steiner: Stuttgart (2010), 55-69.

„Ursachen und Folgen erfolgreicher Patentaktivitäten im Deutschen Kaiserreich: Ein Forschungsbericht", in Walter, Rolf (ed.). *Innovationsgeschichte*. Franz Steiner: Stuttgart 2007, pp. 249-277.

„Globalisierung und Ungleichheit: Einige neue Forschungen und neue Quellen zu Lateinamerika, Afrika, Asien und Europa," in *Journal of Social and Economic History (= Vierteljahrschrift fuer Sozial- und Wirtschaftsgeschichte)* (2004) [Globalization and Inequality in Latin America, Africa, Asia, and Europe. New Research and New Sources]

"Die Zukunft der kliometrischen Wirtschaftsgeschichte im deutschsprachigen Raum," in Günther Schulz et al. (eds.), *Sozial- und Wirtschaftsgeschichte. Arbeitsgebiete - Probleme - Perspektiven, 100 Jahre Vierteljahrschrift für Sozial- und Wirtschaftsgeschichte*. Stuttgart: Steiner 2004, pp. 639-655. [The Future of Cliometrics – a Literature and Project Review]

"Anthropometrics, Consumption and Leisure: The Standard of Living," in Sheilagh Ogilvie/Richard Overy (eds.), *Germany: A New Social and Economic History*, vol. III: 1800-1989. London: Edward Arnold, 2003, pp. 383-422

"Human Stature and Climate: The Impact of Past Climate on Living Standards" in G. Wefer, W.H. Berger, K. Behre, E. Jansen (eds.), *Climate Development and History of the North Atlantic Realm*. Springer Verlag Berlin Heidelberg, 2002, pp. 327-338.

"A Most Difficult Case of Estimation: Argentinian Heights, 1770-1840", with Ricardo Salvatore, in John Komlos/Joerg Baten (eds.): *The Biological Standard of Living in Comparative Perspective*. Stuttgart 1998, pp. 90-96.

d) Discussion Papers and Work under Review

"Trends of Stature, Nutritional Quality and Health in Asia and Europe over the Last Seven Millennia", with Manon Stephan,

"Gender equality in Asia and Europe during the 20th century: was it just a by-product of economic development?", with Sophia Jung (1st)

"A Game of Bones: State Capacity, Security, and Welfare in the Ancient Middle East. 10k – 400 BCE", with Giacomo Benati, Arkadiusz Sołtysiak, and Alessandra Tagini

"Was there a "Golden Age" of health and height in 15th and 16th century in Central and Eastern Europe?" With Vera Haponova, Rafał Fetner, Stefan Glaisner, Darya Gritskevich, Aleksandra Grzegorska, Rimantas Jankauskas, Jovita Kadikinitė, Justina Kozakaite, Wojciech Mazurek, Alessandra Tagini, Sergei Vasiliev, Qiang Wang, Volha Yemialyanchyk

"New estimates of European inequality trends from antiquity to the early-modern period: evidence from bioarchaeological sources", with Vera Haponova, Rafał Fetner, Darya Gritskevich, Aleksandra Grzegorska, Rimantas Jankauskas, Jovita Kadikinitė, Justina Kozakaite, Wojciech Mazurek, Sergei Vasiliev, Volha Yemialyanchyk

"Schooling, literacy and numeracy in 19th C. Europe: long-term development and hurdles to efficient schooling", Background paper prepared for the Global Education Monitoring Report 2021. <https://unesdoc.unesco.org/ark:/48223/pf0000383171.locale=en>

"Indirect Survey Estimates of Basic Numeracy Among Disadvantaged Groups in Sub-Saharan Africa". Background paper prepared for the Global Education Monitoring Report 2021. <https://unesdoc.unesco.org/ark:/48223/pf0000380095>

"Elite Violence and Elite Numeracy in the Middle East since the early Middle Ages"

"Silver, Murder, and Institutions: Did the "Curse of Resources" impact on Homicide Rates? Global evidence since 1890", with Jessica Baier, CEPR Working Paper 12397

"Why have the Heights of Indians Increased so Slowly?" with Tim Hatton, Working Paper, Univ. Tuebingen

"The Multidimensional Development of Standards of Living over the Past 2000 Years based on archaeological skeletons: What Role Did the Justinian Plague Play?" with Richard H. Steckel, Clark Spencer Larsen and Charlotte A. Roberts

"When East-central European countries were ahead of the West: New research on welfare and human capital"

"How to do age-heaping-based numeracy analysis (and how to avoid common pitfalls)"

"Heights and Development in a Cash-Crop Colony: Living Standards in Ghana, 1870-1980" (with Alexander Moradi and Gareth Austin). Working Paper LSE/Tuebingen/Oxford, to be revised and resubmitted *Economic History Review*. Older version: ERSA Working Paper 325.

"Interpersonal violence in South Asia, 900-1900", with Sarah Gust.

"Was there a 'Curse of Resources'? Oil Production and Human Capital Investments in the Middle East and South Asia 1880-1989, with Rima Ghanem

"Late-Colonial and Post-Colonial Human Capital Developments in Latin America: insights for African development?"

"Strategies to cope with potential labor market bias and other selectivities in height research"

"Women count. Gender (In-)Equalities in the Human Capital Development in Asia, 1900-1960, with Julia Friesen and Valeria Prayon, Tübingen Working Papers in Economics and Finance 29 (2012)

"Human Capital, Institutions, Settler Mortality, and Economic Growth in Africa, Asia and the Americas", with Valeria Prayon.

"Global Long-term Human Capital Stock Series 1830-1970" with Nicholas Meinzer

"Patenting Abroad and Human Capital Formation," with Kirsten Jäger

"War, Crisis, and the Capital Market: The Anomaly of the Size Effect in Germany, 1872–1990" with Margaryta Korolenko

"Growth Accounting in Times of Turbulence and Death: Efficiency, Technology, Capital Accumulation and Human Capital 1929-1950" (with Kerstin Enflo), also older version: Universidad Pompeu Fabra Economic Working Paper No. 1024.

"The Long Run Development of Capital Accumulation around the Globe: Estimates for 77 Countries, 1925-65" with Kerstin Enflo, Working Paper Univ. Lund and Tuebingen.

"Grain Price Fluctuations and Witch Hunting in Bavaria", with Ulrich Woitek, Working Paper Univ. Tuebingen and Zuerich. Older Version: University of Glasgow, Business School – Economics, Working Papers 2001_9

"The Selectivity of Argentina's Immigrants: Characteristics and Determinants (1900-1930)", with Linda Twrdek.

"Changes in prehistoric subsistence and biological standard of living in Southwest Asia and Europe: a working paper" (with Eva Rosenstock)

Smaller Contributions, and Early Studies (total 27)

"The Imperial Expansion of the Ottoman Empire and its Cultural Determinants, with Rima Ghanem, in *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press), 248.

"Did Brain-drain from India Cause Underdevelopment? Numeracy of Indian Migrants and the Indian Population, Seventeenth to Twentieth Century", in *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press), 279-281.

"Conclusion", in *A History of the Global Economy: 1500 to the Present* (2016, Cambridge University Press), 353-355.

"Anthropometric Methods and the Interdisciplinary Conversation Between Archaeology and Economics. A Study of the Impact of the Specialization in Husbandry on Mean Height in Early-Historical Europeans", with Nikola Koepke (1st), in: *Layers of Perception – CAA 2007*.

„Ursachen und Erfolg von grenzüberschreitender Unternehmertätigkeit 1830-1914. Das Beispiel des badisch-schweizerischen Raumes", in: Schneider, Jürgen (Hg.): *Politische und natürliche Grenzen als wirtschaftliche und soziale Herausforderungen*. Stuttgart 2003, S. 179-201. [Migration of entrepreneurs and firms across national borders]

"Neue Quellen für die unternehmenshistorischen Analyse". in *Scripta Mercaturae*, (2002), S. 1-37.

"Does Communism and Nationalsocialism Make You Shorter and Die Earlier? Wirtschaftsordnung und Biologischer Lebensstandard", in Denzel, Markus/Gömmel, Rainer (Hg.): *Weltwirtschaft und Wirtschaftsordnung*. Festschrift für Jürgen Schneider. Stuttgart: Steiner 2002, 315-326.

"Kartographische Residuenanalyse am Beispiel der regionaloekonomischen Lebensstandardforschung ueber Baden, Wuerttemberg und Frankreich", in Dietrich Ebeling (ed.), *Historisch-thematische Kartographie. Konzepte - Methoden - Anwendungen*. Bielefeld: V. Regionalgeschichte 1999, 98-109. [Cartographic Residual Analysis: Examples from Living Standard Research on France and South-West Germany]

"Statistische Ansätze in der Wirtschafts- und Sozialgeschichte: Diskussions- und Forschungsstand" in: *Geschichte und Informatik* 9 (1998), 7-25. [Statistical Methods in Economic and Social History]

"Economic Development and the Distribution of Nutritional Resources in Bavaria, 1797-1839; An

Anthropometric Study" in Clara Eugenia Nunez (ed.), *Trends in Income Inequality during Industrialization*, IEHA Conference B12. Madrid 1998, 149-158.

"Computerkartographie und Geographische Informationssysteme am Arbeitsplatz des Historikers" in: Martin Fell, Wolfgang Spickermann und Lothar Wierschowski (eds.): *Machina Computatoria*. St. Katharinen: Scripta Mercaturae, 1997, PP. 145-158. Reprinted in: Arbeitsgemeinschaft Geschichte und EDV (ed.), *Geschichte und EDV: Probleme und Fortschritte - Probleme mit dem Fortschritt?* Bochum: Jawl, 1997, pp. 1-14. [Possibilities of Computer Cartography for Historians]

"Besitzverteilung und biologischer Lebensstandard im Bayern des frühen 19. Jahrhunderts", in Joerg Baten and Markus A. Denzel (eds.), *Wirtschaftsstruktur und Ernährungslage 1750-1850*, St. Katharinen: Scripta Mercaturae Verlag, 1997, 94-107. [Wealth and Biological Living Standard in Early 19th century Bavaria]

"Economic Aspects of Automated Mapping at the Historian's Workbench," in Michael Goerke (ed.), *Coordinates for Historical Maps* (Göttingen: St. Katharinen, 1994), 146-155.

"Conclusion: The Biological Standard of Living in Comparative Perspective", with John Komlos, in John Komlos/Joerg Baten (eds.): *The Biological Standard of Living in Comparative Perspective*. Stuttgart 1998, pp. 526-528.

"Große und kleine Unternehmen in der Krise von 1900-1902." *Tübinger Diskussionsbeitrag* 216 (2002).

Early studies (14): "Der Fall Magdalena Becherin: Geistererscheinungen und Massenhysterie um 1800" in Jürgen Treffeisen (ed.), *Geschichte der Stadt Kenzingen*. Lahr, 1999; "IEHA-Preconference: The Biological Standard of Living and Economic Development: Anthropometric Measures, Nutrition, Health and Well-Being in Historical Perspective" in: *Cliometrics Newsletter* Spring 1997, pp. 3-9; "Ernährung, wirtschaftliche Entwicklung und Bevölkerungswachstum: Das Forschungsfeld der anthropometrischen Geschichte," *HISTORICUM - Zeitschrift für Geschichte*, Summer 1995, pp. 26-31. [Nutrition, Economic Development, and Population Growth: A Review]"Der Landkreis Lörrach. Tabellen zur Historischen Statistik," in Landesbeschreibung Freiburg (ed.): *Kreisbeschreibung des Landkreises Lörrach*, Vol. 1 (Sigmaringen: Thorbecke 1993), A1 - A8. [Historical Statistics of the Loerrach District]; "Die Stadt Rheinfelden im 19. und 20. Jahrhundert," with Fred L. Sepaintner in Landesbeschreibung Freiburg (ed.): *Kreisbeschreibung des Landkreises Lörrach*, Vol. 2 (Sigmaringen: Thorbecke, 1994), pp. 269-288. [Economic History of Rheinfelden]; "Die Stadt Schopfheim im 19. und 20. Jahrhundert," with Fred L. Sepaintner in Landesbeschreibung Freiburg (ed.): *Kreisbeschreibung des Landkreises Lörrach*, Vol. 2 (Sigmaringen: Thorbecke, 1994), pp. 497-517. [Economic History of Schopfheim]; "Man nehme ... die Grundlagen einer Industriestadt an; vergesse aber, daß Freiburg eine solche nicht sei.' Zur Elektrifizierung in Freiburg und den nicht genutzten 'Vorteilen des Nachzüglers'," in Helmut Böhme and Dieter Schott (eds.), *Wege regionaler Elektrifizierung in der Rhein-Main-Neckar-Region* (Darmstadt: Universitätsverlag, 1993), pp. 71-78. [The Locational Economics of Electricity Innovation in Freiburg]; "Die wirtschaftliche Entwicklung der Stadt Lahr im 20. Jahrhundert," in: Stadt Lahr (ed.), *Geschichte der Stadt Lahr im Schwarzwald*, Vol. 3 (Lahr: Verlag Ernst Kaufmann, 1993), pp. 66-94. [Economic History of 20th C Lahr]; "Von der Reformation bis zum Ende des 18. Jahrhunderts," in Gerhard A. Auer et al. (eds.), *Vörstetten. Ein Dorf im Wandel der Zeit* (Vörstetten Gemeinde-Druck, 1993), pp. 85-122. [Economic History from Reformation to the End of the 18th Century]; "Grenzach-Wyhlen. Bevölkerung, Wirtschaft und Verkehr," in Landesbeschreibung Freiburg (ed.): *Kreisbeschreibung des Landkreises Lörrach*, Vol. 1 (Sigmaringen: Thorbecke 1993), pp. 803-853. [Economic and Population History of Grenzach-Wyhlen]; "Wandel der Energienutzung," in Arbeitskreis Regionalgeschichte Freiburg (ed.), *Befreiungen? Aus der Umweltgeschichte am südlichen Oberrhein* (Freiburg: Haug Verlag, 1992), pp. 12-15. [An Economic History of Energy Use]; "Bergbau am Sexauer 'Eberbächle' im Mittelalter und im 18. Jahrhundert," in Gerhard A. Auer et al. (eds.), *Sexau. Ein Dorf am Fuße der Burg* (Sexau Gemeinde-Druck 1992), pp. 253-276. [Mining in Sexau]; "Jechtingen in der frühen Neuzeit - 1500-1800," with Eveline Klein, in Gerhard A. Auer (ed.), *Jechtingen am Kaiserstuhl* (Sasbach Gemeinde-Druck, 1992), pp. 127-

168. [Early Modern Economic History of Jechtingen]

Book Reviews (selection)

Journal of Economic History (2018), *Journal of Economic Literature* (2003), *Economic Development and Cultural Change* (2007),

Functions and Memberships

Co-editor-in-chief *Economics and Human Biology* (since mid-2015)

President, *European Historical Economics Society* (2015-17)

Secretary General of the *International Economic History Association* (since 2006, reelected 2009, ended 2012).

Dean of the economics department, Univ. Tuebingen (2004-2006)

Vice-dean and director of the economics department, Univ. Tuebingen (2003-2004)

Executive Committee Member of the International Economic History Association (IEHA) 2006-2018.

Co-Editor – *Economics and Human Biology* (since 2015)

Member of the Board of Trustees – *Cliometric Society*

Member of the Board (Beisitzer) – Gesellschaft fuer Sozial- und Wirtschaftsgeschichte (German Social & Economic History Society)

Member of the Editorial Board – *Explorations in Economic History* (Academic Press), 2011-2017

Member of the Editorial Board – *European Review of Economic History* (Cambridge University Press), 2005-2010.

Member of the Editorial Board – *Australian Economic History Review* (Blackwell Publ.) 2012-2016

Member of the Editorial Board – *Social Science History* (Duke University Press) -2010-2014

Member of the Editorial Board – *Journal of Bioeconomics* (Springer) since 2015

Member of the Editorial Board – *Journal of Life Sciences* (Kamla Rai Publisher) since 2011

Co-editor *Vierteljahrschrift fuer Sozial- und Wirtschaftsgeschichte* since 2009

Co-editor *Jahrbuch fuer Wirtschaftsgeschichte* 2003-2010

Member of Finding Committees, Univ. Regensburg and Univ. Hohenheim: Chairs of Economic and Social History, 2009/10, 2011/12.

Member of the Committee for University Structure and Development (*Strukturkommission*), Univ. Tuebingen (since 2010)

Research Affiliate of the Centre for Economic History (CEH) at Australian National University (since 20012)

Organizer (with Valeria Prayon, Yvonne Stolz and Katherina Koberski) of the GlobalEuroNet Workshop on “Human Capital Development in Long-Run Perspective” in Tuebingen 2010.

Organizer (with Linda Twrdek and Matthias Zehetmayr) of the Conference “Anthropometrics”, Munich, Jan. 2010

Organizer (with Kerstin Enflo) of the GlobalEuroNet Workshop on “Living Standards, Human capital and Inequality” in Lund 2007

Organizer (with Scott Eddie and John Komlos) of the "First German Cliometrics Conference" in Toronto, 1999, and of the "German Cliometrics Conference", Tuebingen 2006.

Organizer (with Frances Rosenbluth) of the workshops “Biological Standard of Living and Inequality during the Preindustrial Era: A Political Economy Workshop” (Yale Univ. 2005, 2006)

Member of the ESF Pool of Reviewers (that has 2320 reviewers for all disciplines, all EU countries)
 Referee for journals such as the American Economic Review, Journal of Economic History, Oxford Economic Papers, Explorations in Economic History, Journal of Population Economics, World Development, Journal of Institutional and Theoretical Economics, Revista de Historia Economica, European Review of Economic History; Economics and Human Biology, World Politics etc.; Publishers, Universities (for example, Cambridge University, Pompeu Fabra, University of Barcelona, Univ. Goettingen, Free Univ. Berlin, Innsbruck Univ.), Science Foundations (such as the National Science Foundation (U.S.), European Science Foundation, the German DFG, the Dutch NWO, and the Swiss *Nationalfonds*, the German elite foundation *Studienstiftung*), Prize committees (for example, the Spinoza Prize committee).

Advisory Board member (from 2002-2010) and Network Chair (Economics, 1998 to 2006) of the European Social Science History Association

European graduate teacher - *Senior lecturer* at *GlobalEuroNet Summer School*, Lisbon 2009, at the CEPR summer-school "Extremely Long Run Growth", Florence 2006, at the Preindustrial Cliometric Conference, Burgos 2002, and the *European Historical Economics Society Summer School*, Lisbon 2000. Also lectured at the First economic history summer school of the Southern Hemisphere, Montevideo 2010.

Organisation of two data collection "hubs" for the *International Economic History Association*.

Membership in Scholarly Associations: Verein für Socialpolitik (German Economic Association), Cliometric Society, Economic History Association, European Historical Economics Society, Gesellschaft für Sozial- und Wirtschaftsgeschichte.

Member of *Wirtschaftshistorischer Ausschuss* of the *Verein fuer Socialpolitik*

Assistant Publisher of "*Beiträge zur Wirtschafts- und Sozialgeschichte*" (with Markus A. Denzel, Hans-Jürgen Gerhard and Oskar Schwarzer), 1999-2002

Awards and Grants

(projects in which I participated in a prominent role: 77.4 mio Euro; my separate projects 2.72 mio Euro)

Dissertation Award 1998 of the International Economic History Association for the best dissertation worldwide in its field.

DAAD Central African Infectious Disease and Epidemics Research Alliance. (CAIDERA). This is part of the German government program to fund four globally competitive health research centres via the DAAD. Total expected funding ca. 6 mio Euro. Speakers: Steffen Borrmann und Samuel Wagner. My projected share: one Ph.D. stipend, plus related costs, ca. 100,000 Euro.

DFG SFB (research cluster) "RessourceCultures", interdisciplinary application (archaeology, ethnology, economics and many others) organized by Martin Bartelheim, Univ. Tuebingen, first and second round approved, total 30 Mio Euro (2013-2025, all three rounds were approved). My projected share is ca. 650,000 Euro.

German Science Foundation (DFG) research grant for the project 2018-20: Exploring numeracy trends in Africa and the Middle East, 1700 – 1970: How large was the colonial impact? Ca. 150,000 Euro.

NWO (National Science Foundation of the Netherlands) research grant: CLIO-INFRA - Research Infrastructure for the study of Global Inequality, Jan 2011-Dec 2015. Coordination: Jan Luiten van Zanden, IISG. Total grant ca. 1.7 mio Euro (my share 210.000 Euro).

Vice-Speaker and participating Professor of the graduate school "Firm Development, Market Processes and Regulation in Dynamic Decision Models" (German Science Foundation, DFG), jointly with six other colleagues, total grant: about 2.8 million Euro, my share 6 of ca. 30 stipends (=ca. 450,000 Euro). 2002-2008.

Excellence initiative of the German Government, large-scale doctoral school "Learning, Educational Achievement, and Life Course Development (LEAD)" organized by Ulrich Trautwein, Univ. Tuebingen, and others, I am a principal investigator in this doctoral school. Total funding ca. 30 Mio. My projected share ca. 50,000 Euro.

ESF Collaborative Project "Historical Patterns of Development and Underdevelopment: Origins and Persistence of the Great Divergence (HIPOD)", jointly with CEPR (incl. LSE/UPF colleagues), and colleagues from Warwick, Dublin, Utrecht, Madrid, Montevideo, coordination: Stephen Broadberry/Warwick and Kevin O'Rourke/Dublin 2009-2012. Total budget 1.4 Mio Euro, my share ca. 150,000.

German Science Foundation (DFG) research grant for the project 2009-2013: „Human Capital Selectivity of Migrants“, ca. 100,000 Euro.

German Science Foundation (DFG) research grant for the project (joint with Prof. Dr. Jochen Streb, Hohenheim), 2002-2006: „Technologietransfer während des deutschen Wachstumserfolges, 1880-1913: Übertragungskanäle und Spill-over-Effekte zwischen Unternehmen, Branchen und Regionen“, ca. 158,000 Euro (my share ca. 80,000 Euro).

DFG SFB (research cluster) "RessourceCultures", additional intramural grant: Bioarchaeological Studies on Menorca and the Western Mediterranean during the Bronze Age, with Martin Bartelheim and Marta Diaz-Zorita, ca. 7,000 Euro.

DFG conference grant "European Historical Economics Society Congress", 20,000 Euro. Additional grant by Universitätsgesellschaft Tübingen.

DFG conference grant "Economics and Human Biology", 20,000 Euro. Additional grant by Universitätsgesellschaft Tübingen, 1800.

Fritz Thyssen Stiftung grant for the research project (1999 bis 2003): "Steuerunterlagen als unternehmenshistorische Quelle. Ein Pilotprojekt zur Messung des Erfolgs deutscher Unternehmen im internationalen Vergleich (1878 bis 1913)" [Tax Registers as a Source for Business History: The Measurement of German Industrial Success in International Perspective, 1878-1913, ca. 21,000 Euro]

ESF Program grant: "GlobalEuroNet -- Globalizing Europe: Economic Growth, Institutional Change and Social Cohesion, 1850-2000" (joint with Stefano Battilossi, Univ. Carlos III de Madrid and 14 colleagues from 13 European countries), total grant: around 500,000 Euro, my share ca. 40,000 Euro.

ESF program EUREKA/COST action A34: „Gender and Well-Being: Interactions between Work, Family and Public Policy“, under the leadership of Cristina Borderias. Georg Fertig and I were the German representatives. It was a large European network of 14 nations, each with two representatives and several other participating scholars.

DAAD grant for the project "Social Mobility and Intergenerational Human Capital Transmission" (working title), beneficiary Carolina Vicario, first stage grant 20,000 Euro, can be prolonged, maximum 34,000 Euro.

"Money and Finance in China and East Asia, 1600-1900" joint with Hans-Ulrich Vogel and others): Seed grant of the Land Baden-Wuerttemberg, total ca. 55,000 Euro (with Hans-Ulrich Vogel), 2004. A DFG research group was established, in which I act as advising committee member.

DAAD grant for research exchange with the Moscow State University (Lomonossow, jointly organized with the International Center, Univ. Tuebingen), 2002-2006.

Landesgraduiertenfoerderung Baden-Wuerttemberg (Grad student stipends of the Land Baden-W.), stipend for Nikola Koepke to prepare her dissertation manuscript 2001-2003, I was supervisor of the thesis.

German Science Foundation (DFG) research grant: "Political Power Sharing and Anthropometric Inequality in European Countries and Regions, 18th and 19th centuries" (in cooperation with Frances

Rosenbluth, Yale University), to be resubmitted on a smaller scale.

German Science Foundation (DFG) conference grant for the "First International Conference of Economics and Human Biology", Tuebingen 2002 (27,650 Euro). I was also co-organizer of the second conference, in Muenchen 2004 (26,000 Euro)

German Science Foundation (DFG) conference grant for the "Second German Cliometrics Conference", Tuebingen 2006 (13,000 Euro).

German National Science Foundation, travel grant for the "American Economic Association/ASSA" conference, 2002 (ca. 900 Euro)

German National Science Foundation, Travel Grant for the First Latin American Economic History Conference, Montevideo 2007 (ca. 1,000 Euro)

Small Grant of Tuebingen University to set up "data hubs" for the International Economic History Association and to develop multimedia teaching tools on "how to use" them, ca. 16,800 Euro, traded out in the *Berufungsverhandlungen*)

Travel Grant from Univ. Carlos III de Madrid in order to create the ESF program application with Stefano Battilossi

Presentation Grant 1998 of the *Verein für Socialpolitik* (ca. 1,000 Euro)

German National Science Foundation, Travel Grant for the First German Cliometrics Conference, Toronto 1999 (ca. 1,000 Euro)

International Economic History Association Price 2002 for the Best Doctoral Research, Buenos Aires, Juli 2002. (ca. 2,500 \$ incl. travel)

Dissertation price 1998 of the Economist Alumni Club, Munich.

Ph.D. students and Post-Docs

Current (10 predoc, 3 postdoc): *Rouven Adomat*, Migrant Selectivity in Asia. *Andreas Beyer* Bioarchaeology of North and South America; *Sarah Ferber*, Numeracy in Africa; Luyuan Guan, Elite numeracy in Asia; *Sophia Jung*: Health Development of Females and Males; *Caroline Namibiru*, Numeracy and Health Behaviour in Africa; *Alessandra Tagini*, Bioarchaeological Development and Cultural Resources of the Western Mediterranean; *Benedikt Rubendorfer*, Numeracy in Latin America: A Long Term Perspective in the Precolonial Period; *Manon Stephan*, N.N.; *Qiang Wang*, Gender inequality in Asia; *Dr. Bruno Witzel* (Postdoc): A New Economic History of Brazil using Micro Data. *Dr. des. Moritz Kaiser* (Postdoc project in prep.). *Dr. Louis Henderson* (Human Capital of Western Europe).

Finished Ph.D.s (32 as first ref., 15 entered academic careers).

Prof Alexander **Moradi** 2005, taught at Oxford University 2005-08, now prof at U Bolzano, publications include REStat, EJ, World Development, JEH. Prof. Gerhard **Kling** 2004, worked as Ass. Professor of Finance at the University of Utrecht, Netherlands, worked as professor at SOAS, now Univ. Aberdeen. He received the young researcher's award of the Economic History Society 2003 and the IEHA prize for world-best doctoral research, competition in Helsinki 2006; publications include Explorations in Economic History and many other; Prof. Daniel **Schwekendiek** 2007, was PostDoc at Oxford Univ. and at Univ. of Berkeley, now Prof. at Sungkyunkwan U (Seoul); published in Economic History Review, Social Science and Medicine and many other SSCI-listed journals; Prof. Dácil-Tania **Juif** 2014, published in the EEH and the J of Comparative Economics; she is Prof. at Carlos III Univ. de Madrid; Prof. *Maria Del Carmen Pérez Artés* 2018, published in RHE, HER, Historia Agraria, works as assistant professor at the Univ. Almeria. *T*; Dr. Aravinda Meera **Guntupalli** 2007, published in Explorations in Economic History and many other, worked as lecturer at the Univ. of Southampton, now Univ. Aberdeen; Dr. Matthias **Blum** 2012, was lecturer at Belfast Univ., published in EEH, EHB, EHR and many other journals; *Elisabeth Kempter* 2023, published in Pop and Dev. Review; now postdoc at Univ. Luxemburg; Dr. Nikola **Koepke** 2008, was lecturer at

Oxford University, U Barcelona; U Zuerich, published in *Explorations in Economic History* and the *European Review of Economic History*. Dr. Mojgan **Stegl née Khanabadi** 2013, teaches as Post-Doc at the Univ. of Duisburg. Dr. Ralph **Hippe** 2013, published in various refereed journals and taught at the London School of Economics, education research now for the European Commission at ISPRA/Italy; Dr. Carolina **Vicario** 2015, teaches at the Univ. de Republica, Montevideo. **Rima Ghanem**, has a university position at the University of Tartus/Syria; Dr. **Nicholas Meinzer**, 2017, published many articles, works now in Data Science; Dr. Markus **Baltzer** 2006, published in *European Review of Economic History* and in *Applied Economic Letters*, holds a tenured research position at the German Federal Bank. Dr. Yvonne **Stolz** 2011, published in *Economic History Review* and other journals; Dr. Dorothee **Crayen** 2009, published in *JEH*, *EEH* and *EHR*, works in Economics and Statistics Dept, IHK Schwerin; Prof. Dr. Kirsten **Jäger née Labuske** 2007, published in *German Economic Review*, *International Productivity Monitor*, was visiting professor at Univ. Pompeu Fabra (Barcelona) and economist at the Conference Board, Brussels/New York. Now Prof. at the International University (IU) Stuttgart.; **Thomas Keywood** 2020, published in *Cliometrica* and the *European J of Political Economy*, works in development; **Laura Radatz** 2023. **Franziska Tollnek** 2017, published many articles, heads a large department of the Statistical Office. Dr. **Daniel Steinberg** 2017, works in finance; Dr. Kerstin **Manzel** 2010, published in *Revista de Historia Económica*, now in a research position at the German Statistical Office. Dr. Christina **Mumme** 2014, research department at the Oesterr. Kontrollbank, Vienna; Dr. Valeria **Prayon** 2013; Dr. Nikolinka **Fertala** 2005, was a lecturer at the University of Economics in Vienna, Dept. Computational Statistics, publications include *Empirica*. Dr. Norman **Müller** 2008, now at the Federal Institute for Educational Research. Dr. Shuxi **Yin** 2005, worked as a lecturer at the Hangzhou University, the University St. Gallen, now Assistant Professor at Shantou University, publications include *EEH* and *HER*. **Jessica Baier** 2017; Dr. Linda **Imelio née Twrdek** 2011, published twice in *Economics and Human Biology*, works in the research dept of the AOK Baden-Wuerttemberg. Dr. Dominic **Behle** 2010. Dr. Julia **Muschallik** (2013, jointly advised with K. Pull, I was second ref., published in *Economics of University Education and Mentoring*); Dr. Carolin **Schmid** 2018, jointly advised with FHS Heilbronn); she now teaches at Cambridge Univ.

Finished Post-Docs (8, all continued with academic careers):

Dr. Giacomo Benati, Violence and State Formation in the Middle East, Western Mediterranean and Northern Europe; now at the University of Barcelona.

Dr. Gabriele Cappelli, now associate professor at Univ. Siena (tenured);

Dr. Laura Maravall Buckwater, first assistant professor at Univ. Pontifica Comillas (ICADE), Madrid, now Associate Professor at Univ. de Alcalá (tenured).

Dr. Eva Rosenstock (PostDoc-Project: Biological Living Standards, 8000 – 1000 BC), worked first as lecturer at the Free University of Berlin, no tenured researcher and scientific coordinator at the Univ. Bonn.

Dr. Kleoniki Alexopoulou (PostDoc) Project: Exploring numeracy trends in Africa and the Middle East, 1700 – 1970: How large was the colonial impact? Works now at U Lisbon.

Dr. Uwe Fraunholz (PostDoc-Project: Multimedia Applications in Teaching Economic History, April 2001-Oct 2002). Now lecturer at the University of Dresden;

Dr. Jacek Wallusch (Post-Doc, Pre-industrial Cliometrics and Time-Series Analysis, Oct-Dec 2002), works as tenured lecturer at the University of Poznan, publications include *EEH*.

Dr. Qing Wang (Human Capital Formation and Monetary History of China, 1700-1900) worked as postdoctoral researcher at the Univ. of Munich, now Shanghai.

Presentations at the Following Conferences, and Seminars (selection)

Keynote lecture: OWL (Oxford, Warwick, LSE) economic history workshop 2023

Keynote lecture: Conference on Pandemics 2023, Univ. Luxembourg/Univ. Thessaloniki

Keynote lecture: Quantitative History Symposium 2023 at the Jiaotong Univ. Shanghai

Keynote lecture: Italian Health Economics Conference, Genova 2020.

Keynote lecture: WEast Workshop, Cracow 2019.

Round Table Discussion: the Future of Clio (CLADHE, Santiago de Chile 2019).

American Economic Association/ASSA, Philadelphia 2018, Conference: Round Table Discussion: The Future of Economic History

IEHA Executive Council Workshop: Comparisons in Global Economic History, MIT Boston 2016

Economics and Human Biology Conference, Tübingen 2016

American Economic Association/ASSA -Conference, Washington 2003

European Economic Association/ESEM, Milan 2008, Madrid 2004.

World Cliometrics Conference Honolulu 2013 (joint paper pres. by C. Mumme), Edinburgh 2008, Venice 2004, Montreal 2000, Munich 1997

International Economic History Association, Stellenbosch/South Africa (2010, EC meeting), Utrecht 2009, Kyoto 2008 (EC meeting), Utrecht 2007 (EC meeting), Helsinki 2006, Buenos Aires 2002, Madrid 1998

European Historical Economics Conference, London 2013, Dublin 2011, Geneva 2009, Lund 2007, Istanbul 2005, Madrid 2003, Oxford 2001, Lisbon 1999, Venice 1997.

Asian Historical Economics Conference, Beijing 2010.

Latin American Economic History Conference (CLADHE), Montevideo 2008.

Economic History Society, Nottingham 2008, Reading 2006, London 2004, Leeds 1998.

Cliometric Society Meeting, Lake Tahoe 2005.

Economic History Association, Washington 2013, New Brunswick 1997

Courses taught at the University of Tuebingen (selection)

"Economic History of the World – New Research", lecture series, regularly since winter 2016/2017.

"International Development Economics and Economic History", lecture series, regularly since summer 2016.

"Microeconomics", (2-4 hour per week lecture series), winter 2000/01, every second year to winter 2011.

"World Economic History: Pre-Industrial Period", lecture series, winter 2001/02 and summer 2004, 2008/09, summer 2010, winter 2013.

"World Economic History: 20th Century", lecture series, winter 2001/02 and 2003/04, summer 2008, winter 2010, 2011.

Other course: "The Economic History of India, China and Germany", seminar; "Creation, Productivity and Success of Firms", lecture series; "New Research in Business History", seminar; "Multimedia Presentation und Economic History", seminar, "Capital markets in Economic History", seminar, with Rainer Schöbel; "Competitiveness and Productivity in International Perspective, seminar; "Internet Seminar on Business History", seminar, with Toni Pierenkemper, Univ. Cologne; "Analysis of Economic Data and Scholarly Presentation", grad school lecture series; "Economic History of the Biological Standard of Living", seminar; "European Economic History, 19/20th Century", lecture series; "Economic History of National Socialism and War", seminar;

Courses taught at other Universities (selection)

University of Munich. Microeconomics; Intermediate Econometrics; Empirical Economics; European Economic History, 18th to 20th Century; Research Course: Anthropometric History; *Universidad de Cantabria:* Cointegration Analysis; *National Schewtschenko University, Kiev,* Econometric Analysis. New Methods in Economic History.

Galofré's global network analysis and ranking placed my publications and citations in the top5 worldwide (if retired competitors are excluded), and Tübingen's EH department in the top12.

Most cited article in JEH 1999-2020 (webpage accessed Jan 11th, 2020):

The screenshot shows a web browser window with the URL <https://www.cambridge.org/core/journals/journal-of-economic-history/most-cited>. The page title is "Most cited". Below the title, there is a text block explaining that the page lists all time most cited articles for this title and that users can use publication date filters on the left to restrict the list to recently published content. Below this text is a pagination bar showing "Page 1 of 44" and a list of page numbers from 1 to 7, with "1" being the active page. On the left side of the page, there is a sidebar with a "Most cited (Google Scholar)" button and a "Publication date:" section with radio button options: "Last 3 months (1)", "Last 6 months (6)", "Last 12 months (16)", "Last 3 years (75)", and "Over 3 years (801)". Below this is a "From year:" field with "1999" and a "To year:" field with "2020", followed by an "Apply" button. At the bottom of the sidebar, there are "Actions for selected content:" options: "Select all | Deselect all" and "View selected items". The main content area displays two articles. The first article is "Quantifying Quantitative Literacy: Age Heaping and the History of Human Capital" by Brian A'Hearn, Jörg Baten, and Dorothee Crayen, published in *The Journal of Economic History*, Volume 69 / Issue 3 / September 2009. It has 97 citations and a circular citation badge showing "31". The second article is "The Empire Effect: The Determinants of Country Risk in the First Age of Globalization, 1880-1913" by Niall Ferguson and Moritz Schularick, with 90 citations and a circular citation badge showing "31".