

# CURRICULUM VITAE

STEFAN BOES

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## CONTACT

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## EDUCATION

12/2007            Dr. oec. publ. (summa cum laude), University of Zurich  
10/2003            M.Sc. in Economics, University of Konstanz

## PROFESSIONAL EXPERIENCE

02/2016 –            Professor of Health Economics, University of Lucerne  
01/2013 – 01/2016 Associate Professor of Health Economics, University of Lucerne  
08/2010 – 12/2012 Assistant Professor of Econometrics, University of Bern  
04/2010 – 08/2010 Lecturer in Statistics/Econometrics, University of Zurich  
04/2008            Lecturer in Statistics, Swiss Finance Institute  
11/2007 – 03/2009 Senior Research Associate, University of Zurich

## VISITING POSITIONS

10/2018            Visiting Researcher, Harvard T.H. Chan School of Public Health  
05/2012 – 07/2012 Visiting Scholar, Department of Economics, MIT  
03/2010            Visiting Scholar, Department of Economics, Princeton University  
04/2009 – 04/2010 Visiting Fellow, IQSS, Harvard University

## RESEARCH INTERESTS

Applied health economics, econometrics, policy evaluation

## INSTITUTIONAL RESPONSIBILITIES

- 01/2020 – Academic Director, Master Program in Health Sciences (U Lucerne)
- 08/2019 – Vice Principal, Department of Health Sciences and Medicine (U Lucerne)
- 08/2019 – Head of Section Health Sciences and Health Policy, Department of Health Sciences and Medicine (U Lucerne)
- 12/2016 – Vice President, Swiss Society of Health Economics
- 07/2015 – Director, Center for Health, Policy and Economics (U Lucerne)
- 12/2017 – 12/2019 Academic Co-Director, PhD Program in Health Sciences (U Lucerne)
- 09/2017 – 12/2019 Academic Director, Intl. Doctoral Courses in Health Economics and Policy, Swiss Society of Health Economics, Swiss School of Public Health
- 08/2016 – 07/2019 Vice Dean, Faculty of Humanities and Social Sciences (U Lucerne)
- 08/2015 – 07/2019 Deputy Chair, Department of Health Sciences and Health Policy, Faculty of Humanities and Social Sciences (U Lucerne)

## COMPETITIVE RESEARCH FUNDING

- Swiss National Science Foundation Grant #10001C.188851 “Assessing health insurance literacy in Switzerland – Towards an operational framework and measurement tool” (2020 – 2024, CHF 388’000)
- Swiss National Science Foundation Grant #100018.185153 “Premium subsidies and their impact on health plan choices and health care demand in mandatory health insurance systems: Evidence from Switzerland and an international comparison of health systems” (2019 – 2023, CHF 350’000)
- Horizon 2020 FP, project partner in “PanCareFollowUp: Novel, patient-centred survivorship care to improve care quality, effectiveness, cost-effectiveness and accessibility for survivors and caregivers” (2019 – 2023, overall funding volume EUR 4’000’000, Unilu EUR 220’000)
- University of Lucerne, Research Committee Startup Funding, Project “Social support mechanisms for low-income households in MHI systems” (6/2018 – 4/2019, CHF 41’000)
- University of Lucerne, Research Committee Startup Funding, Project “Health insurance literacy, health insurance choice and demand for health care” (6/2018 – 9/2018, CHF 11’000)
- University of Lucerne, Research Committee Startup Funding, Project “Determinants of care-seeking behavior and identification of potential over- and underutilization of doctor consultations in Switzerland” (6/2016 – 9/2016, CHF 14’000)
- University of Lucerne, Research Committee Startup Funding, Project “Health insurance experiment in Switzerland” (3/2015 – 4/2016, CHF 18’500)
- Swiss Federal Office of Statistics and Swiss Health Observatory, Project “Health Behaviors Switzerland” (4/2014 – 12/2015, CHF 50’000)
- Swiss National Science Foundation Grant #100014.150155 “Perception of the workplace after disability onset: A longitudinal analysis for Switzerland” (2015 – 2017, CHF 170’000)
- University of Lucerne, Research Committee Startup Funding, Project “Physician induced demand and the effects of supply-side regulation in Switzerland” (3/2014 – 2/2015, CHF 13’000)
- Swiss National Science Foundation Grant #100018.152798 “Education and individual risk behavior: A quasi-experimental study” (2014 – 2015, CHF 108’000, with D. Hangartner and M. Steenbergen)
- Swiss National Science Foundation Grant #IZK0Z1.146027 “Impact of user fees on health care utilisation”, to host S. Stillman as visitor at the economics department at the University of Bern (12/2012 – 2/2013, CHF 9’300)
- Swiss National Science Foundation Grant #IZK0Z1.139984 “Identifying the causal effects of education on labor market outcomes”, to visit the MIT (5/2012 – 7/2012, CHF 8’500)

Jacobs Foundation Grant #2012-1001 “Does education affect risk preferences? Evidence using quasi-experimental data” (2012 – 2014, CHF 150'000, with D. Hangartner and L. Schmid)

Swiss National Science Foundation Grant #100013.141333 “Returns to education: new evidence from a discontinuity in school entry tests” (2012 – 2014, CHF 214'000, with D. Hangartner and M. Steenbergen)

Swiss National Science Foundation Grant #100014.134526 “Identification and estimation of treatment effects under monotonicity constraints” (2011 – 2014, CHF 165'000)

Swiss National Science Foundation Grant #PBZHP1-124191 to visit Harvard University (4/2009 – 4/2010, CHF 72'000)

Participation as “Young Researcher” of the Swiss National Science Foundation at the 3rd Nobel Laureate Meeting in Economic Sciences 2008 in Lindau

SOI Prize 2007 for the dissertation entitled “Three essays on the econometric analysis of discrete dependent variables”

Swiss National Science Foundation Grant #10SO11-106334 to participate in the 2004 Essex Summer School (7/2004 – 8/2004, CHF 5'600)

### MAIN RESEARCH PROJECTS

- Demand for health insurance and optimal system design
- Health insurance literacy: framework and measurement tools
- Economic impacts of health shocks
- Socio-economic inequalities in health and related behaviors
- Health care financing and incentives of different payment systems
- Health impacts of interventions in developing countries
- Econometric modeling of health and related outcomes

### GRADUATE STUDENTS (FIRST SUPERVISOR)

Completed: Cornel Kaufmann, Tobias Müller, Christoph Napierala

On-going: Tess Bardy, Kathryn Dawson-Townsend, Aljoscha Hwang, Renata Josi, Yanmei Liu, Nahara Martinez, Rahel Meier, Ana Quiroga, Yael Rachamin, Michael Stucki, Christina Tzogiou, Shalvaree Vaidya, Dominik Wettstein

### TEACHING EXPERIENCE

- Health Economics (Master, yearly since 2014)
- Health Policy Evaluation (Master, yearly since 2014)
- Applied Health Economics (Master, yearly since 2014)
- Economic Evaluation in Health Care (Master, yearly since 2017)
- Evidence-Informed Policy and Stakeholder Dialogue (Master, yearly since 2015)
- Quantitative Methods and Econometrics (Bachelor, Master, PhD, yearly since 2010)

## PUBLICATIONS

### A. BOOKS

Winkelmann R, Boes S (2009) *Analysis of Microdata 2e*. Berlin: Springer.

Boes S (2007) *Three essays on the econometric analysis of discrete dependent variables*. Dissertation, University of Zurich, Faculty of Economics. <https://doi.org/10.5167/uzh-32103>

### B. JOURNAL ARTICLES (PEER REVIEWED)

Hwang AB, Boes S, Nyffeler T, Schuepfer G (2019) Validity of screening instruments for the detection of dementia and mild cognitive impairment in hospital inpatients: A systematic review of diagnostic accuracy studies. *PLoS ONE* 14(7): e0219569.  
<https://doi.org/10.1371/journal.pone.0219569>

Wettstein D, Boes S (2019) Effectiveness of national pricing policies for patent-protected pharmaceuticals in the OECD: A systematic literature review. *Applied Health Economics and Health Policy* 17(2), 143-162. <https://doi.org/10.1007/s40258-018-0437-z>

Müller T, Boes S (2018) Disability insurance benefits and labor supply decisions: evidence from a discontinuity in benefit awards. *Empirical Economics*, forthcoming,  
<https://doi.org/10.1007/s00181-018-1587-4>.

Boes S, Mantwill S, Kaufmann C, Brach M, Bickenbach J, Rubinelli S, Stucki G (2018) Swiss Learning Health System - A national initiative to establish learning cycles for continuous health system improvement. *Learning Health Systems* 2:e10059. <https://doi.org/10.1002/lrh2.10059>

Vaidya S, Boes S (2018) Measuring Quality of Life in Children and Infants with Spinal Muscular Atrophy: A Systematic Literature Review. *Quality of Life Research*, July 2018, 1-8.  
<https://doi.org/10.1007/s11136-018-1945-x>

Kaufmann C, Müller T, Hefti A, Boes S (2018) Does personalized information improve health plan choices when individuals are distracted? *Journal of Economic Behavior and Organization* 149, 197-214. <https://doi.org/10.1016/j.jebo.2018.03.013>

Kaufmann C, Schmid C, Boes S (2017) Health insurance subsidies and deductible choice: Evidence from regional variation in subsidy schemes. *Journal of Health Economics* 55, 262-273.  
<https://doi.org/10.1016/j.jhealeco.2017.08.002>

Almer C, Boes S, Nüesch S (2017) Adjustments in the housing market after an environmental shock? Evidence from online advertisements. *Oxford Economic Papers* 69(4), 918-938.  
<https://doi.org/10.1093/oep/gpw071>

Vaidya S, Hibbert CL, Kinter E, Boes S (2017) Identification of key cost generating events for idiopathic pulmonary fibrosis: A systematic review. *Lung* 195(1), 1-8.  
<http://link.springer.com/article/10.1007/s00408-016-9960-6>

Röthlisberger F, Boes S, Rubinelli S, Schmitt K, Scheel-Sailer A (2017) Challenges and potential improvements in the admission process of patients with spinal cord injury in a specialized rehabilitation clinic - an interview based qualitative study of an interdisciplinary team. *BMC Health Services Research* 17, 443. <https://doi.org/10.1186/s12913-017-2399-5>

Napierala C, Boes S (2017) How weekdays influence economic outcomes in DRG financed health care systems - a case study. *BMC Health Services Research* 17, 168.  
<https://doi.org/10.1186/s12913-017-2055-0>

Boes S, Gerfin M (2016) Does full insurance increase the demand for health care? *Health Economics* 25(11), 1483-1496. <http://dx.doi.org/10.1002/hec.3266>

- Thurneysen N, Plank T, Boes S (2016) Analysis of costs and benefits of a re-accreditation of a Swiss acute care hospital. *Safety in Health* 2:2. <http://dx.doi.org/10.1186/s40886-016-0013-x>
- Marti A, Boes S, Lay V, Reuben Escorpizo PT, Trezzini B (2016) The association between chronological age, age at injury and employment: Is there a mediating effect of secondary health conditions? *Spinal Cord* 54, 239-244. <http://dx.doi.org/10.1038/sc.2015.159>
- Boes S, Marti J, Maclean JC (2015) The impact of smoking bans on smoking and consumer behavior: Quasi-experimental evidence from Switzerland. *Health Economics* 24(11), 1502-1516. <http://dx.doi.org/10.1002/hec.3108>
- Boes S, Nüesch S, Wüthrich K (2015) Hedonic valuation of the perceived risks of nuclear power plants. *Economics Letters* 133, 109-111. <http://dx.doi.org/10.1016/j.econlet.2015.05.033>
- Bachmann A, Boes S (2014) Private transfers and college students' decision to work. *Economics of Education Review* 42, 34-42. <http://dx.doi.org/10.1016/j.econedurev.2014.05.005>
- Boes S, Nüesch S, Stillman S (2013) Aircraft noise, health, and residential sorting: evidence from two quasi-experiments. *Health Economics* 22(9), 1037-1051. <http://dx.doi.org/10.1002/hec.2948>
- Boes S (2013) Nonparametric analysis of treatment effects in ordered response models. *Empirical Economics* 44(1), 81-109. <http://dx.doi.org/10.1007/s00181-010-0354-y>
- Boes S, Nüesch S (2011) Quasi-experimental evidence on the effect of aircraft noise on apartment rents. *Journal of Urban Economics* 69(2), 196-204. <http://dx.doi.org/10.1016/j.jue.2010.09.007>
- Boes S, Staub KE, Winkelmann R (2010) Relative status and satisfaction. *Economics Letters* 109(3), 168-170. <http://dx.doi.org/10.1016/j.econlet.2010.08.027>
- Boes S (2010) Count data models with correlated unobserved heterogeneity. *Scandinavian Journal of Statistics* 37(3), 382-402. <http://dx.doi.org/10.1111/j.1467-9469.2010.00689.x>
- Leemann RJ, Dubach P, Boes S (2010) The leaky pipeline in the Swiss university system: identifying gender barriers in postgraduate education and networks using longitudinal data. *Swiss Journal of Sociology* 36(2), 299-323.
- Boes S, Winkelmann R (2010) The effect of income on general life satisfaction and dissatisfaction. *Social Indicators Research* 95(1), 111-128. <http://dx.doi.org/10.1007/s11205-009-9452-7>
- Boes S, Lipp M, Winkelmann R (2007) Money illusion under test. *Economics Letters* 94(3), 332-337. <http://dx.doi.org/10.1016/j.econlet.2006.06.043>
- Boes S, Winkelmann R (2006) Ordered response models. *Allgemeines Statistisches Archiv* 90(1), 165-180. Reprinted in Hübler O, Frohn J (eds) *Modern Econometric Analysis*, Berlin: Springer. <http://dx.doi.org/10.1007/s10182-006-0228-y>

### C. CONTRIBUTIONS TO EDITED VOLUMES (PEER REVIEWED)

- Leemann RJ, Boes S (2014) Transnational academic mobility from the perspective of gender inequality – researcher flows and knowledge constructions in Europe. In Lawn M, Normand R (eds) *Shaping of European Education: Interdisciplinary Approaches*. Abingdon: Taylor & Francis: p201-220.
- Leemann RJ, Boes S (2012) Institutionalisierung von Mobilität und Internationalität in wissenschaftlichen Laufbahnen: Neue Barrieren für Frauen auf dem Weg an die Spitze? In Beaufays S, Engels A, Kahlert H (eds) *Einfach Spitze? Neue Geschlechterperspektiven auf Karrieren in der Wissenschaft*. Frankfurt aM, New York: Campus, p174-203.
- Leemann RJ, Da Rin S, Boes S (2011) Katalysatoren und Handicaps wissenschaftlicher Karrieren von Frauen. In B. Blättel-Mink, A. Franzke, and A. Wolde (eds.) *Gleichstellung im Reformprozess der Hochschulen. Neue Karrierewege für Frauen?* Sulzbach: Ulrike Helmer Verlag, p123-142.

Boes S, Leemann RJ (2010) Scientific achievements of young researchers: does funding make a gender difference? In Leemann RJ, Stutz H (eds) *Forschungsförderung aus Geschlechterperspektive - Zugang, Bedeutung und Wirkung in wissenschaftlichen Laufbahnen*, Zurich: Rügger, p111-134.

Leemann RJ, Keck A, Boes S (2010) Geschlecht, Forschungsförderung und Verbleib in der Wissenschaft: Der Schweizerische Nationalfonds im Fokus, in Leemann RJ, Stutz H (eds) *Forschungsförderung aus Geschlechterperspektive - Zugang, Bedeutung und Wirkung in wissenschaftlichen Laufbahnen*, Zurich: Rügger, p85-109.

Leemann RJ, Boes S, Da Rin S (2010) La perte plus que proportionnelle des femmes dans les parcours académiques. Quelques résultats quant aux caractéristiques sociales du champ scientifique et à ses processus genrés d'exclusion, in F. Fassa and S. Kradolfer (eds.) *Plafonds de verre à l'université*. Zurich: Seismo, p127-153.

#### D. REPORTS AND OTHER PUBLICATIONS

Meier C, Boes S, Gemperli A, Gmünder HP, Koligi K, Metzger S, Schaefer DJ, Schmitt K, Schwegmann W, Wettstein R, Scheel-Sailer A (2019): Treatment and cost of pressure injury stage III or IV in four patients with spinal cord injury: the Basel Decubitus Concept. *Spinal Cord Series and Cases* 5:30. <https://doi.org/10.1038/s41394-019-0173-0>

Boes S, Brach M, Kaufmann C, Mantwill S, Rubinelli S, Stucki G (2018) Swiss Learning Health System - A national initiative to establish learning cycles for continuous health system improvement. *Learning Health Systems* 2:e10059. <https://doi.org/10.1002/lrh2.10059>

Boes S, Brach M, Kaufmann C, Mantwill S, Rubinelli S, Stucki G (2017) Swiss Learning Health System: Eine nationale Infrastruktur für ein lernendes Gesundheitssystem. *Schweizerische Ärztezeitung*, 98:39. <https://doi.emh.ch/10.4414/saez.2017.05842>

Boes S, Napierala C (2017) Fehlanreize bei den Ärzten beseitigen. *Die Volkswirtschaft* 03/2017, Artikel im Schwerpunkt "Gesundheitswesen und Kosteneffizienz".

Boes S, Kaufmann C (2016) Ungleichheiten im Gesundheitsverhalten der Schweizer Bevölkerung. *Suchtmagazin* 03/2016, Artikel im Schwerpunkt "Gesundheitsförderung".

Boes S, Kaufmann C, Marti J (2016) Sozioökonomische und kulturelle Ungleichheiten im Gesundheitsverhalten der Schweizer Bevölkerung. *Obsan Dossier* 51. ISBN: 978-2-940502-51-6.

#### E. SOFTWARE COMPONENTS

Boes S (2006) regoprobit – A Stata module to estimate random effects generalized ordered probit models, <http://econpapers.repec.org/software/bocbocode/s456604.htm>.

Boes S (2006) goprobit – A Stata module to estimate generalized ordered probit models, <http://econpapers.repec.org/software/bocbocode/s456603.htm>.

## REFEREE ACTIVITIES

*American Economic Journal: Applied Economics; American Journal of Health Economics; Applied Economics Quarterly; BMC Health Services Research; Economic Record; Econometric Reviews; Economics of Education Review; Education Economics; Empirical Economics; Empirische Pädagogik; European Journal of Health Economics; European Journal of Political Economy; Expert Review of Pharmacoeconomics & Outcomes Research; Health Services Research; Higher Education; International Regional Science Review; International Journal of Public Health; Journal of Applied Econometrics; Journal of Behavioral and Experimental Economics; Journal of Econometrics; Journal of Economic Behavior & Organization; Journal of Health Economics; Journal of Human Resources; Journal of Labor Economics; Journal of Labor Market Research; Journal of Public Economics; Journal of Socio-Economics; Journal of Urban Economics; Journal of the European Economic Association; Journal of the Royal Statistical Society; Kyklos; Portuguese Economic Journal; Quarterly Journal of Economics; Regional Science and Urban Economics; Review of Economics and Statistics; Schmollers Jahrbuch; Substance Abuse Treatment, Prevention, and Policy; Swiss Journal of Economics and Statistics; Swiss National Science Foundation; Value in Health.*

## KEY PRESENTATIONS

Federal Office of Statistics (Neuchatel), Federal Office of Public Health (Bern), EuHEA (Maastricht, Hamburg), iHEA World Congress (Basel, Boston, Dublin, Milan), Swiss Congress on Health Economics and Health Sciences (Bern), Economics, Health and Happiness (Lugano), Swiss Workshop in Health Economics (Lucerne), American Society of Health Economics (USC Los Angeles), Swiss Society of Economics and Statistics (Bern, Neuchatel, Lucerne, Fribourg), International Atlantic Economic Conference (Philadelphia), Bildungsökonomischer Ausschuss (Zurich), Statistics Colloquium (Bern), Royal Economic Society (RHUL), Econometric Society European Meeting (Oslo), Applied Econometrics Association Annual Meeting (Rome), Econometric Society World Congress (Shanghai), German Statistical Week (Nuremberg), various seminar and workshop presentations

## FURTHER OUTREACH ACTIVITIES AND CONTRIBUTIONS TO SCIENCE

Lead role in the *Swiss Learning Health System*, a collaborative project between higher education institutions to implement learning cycles for continuous health system improvement and use of research evidence in policy and practice in Switzerland; overall funding volume of CHF 9.2 million for the initial period 2017-2021; see <http://www.slhs.ch> for details

Founding member and vice president of the *Swiss Society of Health Economics* to foster the promotion of science, research and scientific consultancy in health economics in Switzerland

Member of the steering committee of a structured PhD-level course program in health economics and policy offered by different partners universities in Switzerland and in the framework of the Swiss School of Public Health, administrated by the Swiss Society of Health Economics

Organization and active membership in scientific committees of various conferences and workshops in health economics and policy with the goal of promoting scientific research, including:

- ◇ the Lucerne Summer School in Health Econometrics (starting in 2020)
- ◇ the 2019 iHEA World Congress in Basel (member of the local organizing committee and the scientific committee)
- ◇ the 2018 Conference of the Swiss Society of Health Economics in Lucerne (chair of the local organizing committee and the scientific committee)
- ◇ the Swiss Congress of Health Sciences and Health Economics in Bern (member of the scientific committee since 2015)