

Prof. Dr. Guido Bünstorf

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Born: October 10, 1968 (Hamburg)
Nationality: German
Languages: German (mother tongue), English (excellent), French (basic)

Employment

- Current Positions: Professor of Economics, University of Kassel (since 2010)
Executive Vice Director, International Center for Higher Education Research (INCHER-Kassel), University of Kassel (since 2016)
- 2016-2021: Visiting Professor of Innovation and Entrepreneurship, University of Göteborg
- 2017: Visiting Scholar, Scandinavian Consortium for Organizational Research (Scancor), Stanford University
- 2013-2016: Visiting Professor, Entrepreneurship and Org. Behavior, University of Aalborg
- 2013: Visiting Scholar, Coleman Fung Institute for Engineering Leadership, University of California at Berkeley
- 2012 – 2018: Research Professor, Leibniz Institute of Economic Research Halle (IWH)
- 2008 – 2009: Research Group Leader; Max Planck Institute of Economics, Jena
Privatdozent, School of Economics and Management, Friedrich Schiller University Jena, and Faculty Member, DFG Research Training Group 1411 “Economics of Innovative Change”
- 2002 – 2003: Visiting Researcher; Department of Social and Decision Sciences, Carnegie Mellon University
- 1999 – 2002: Assistant to the Executive Director; Max Planck Institute of Economics, Jena
- 1996 – 2008: Research Associate; Max Planck Institute of Economics, Jena

Education

- 2008: *Habilitation* (Friedrich Schiller University Jena)
- 2002: *Dr. rer. pol.* (Friedrich Schiller University Jena; *summa cum laude*)
- 1996: *Diplom* in Economics (University of Freiburg)
- 1990-96: Studies in Economics and Political Science (University of Freiburg and University of Massachusetts at Amherst)

Awards

- Path to Scale Award 2019, *Innovations for Poverty Action*
- Stephan Schrader Award 2010 – Munich Best Paper Award Entrepreneurship Research; *Ludwig-Maximilians-Universität München* and *Technische Universität München*
- Best Habilitation Award 2009, *Friedrich Schiller University Jena*
- K. William Kapp Prize 2006; *European Association for Evolutionary Political Economy*
- Otto Hahn Medal 2003, *Max Planck Society for the Advancement of Science*

Community Service

- Since 2021: Steering Committee, *National Academics Panel Study (NACAPS)*
- Since 2020: Advisory Board, *University of Gothenburg Center on Knowledge-Intensive Innovation Ecosystems (U-GOT KIES)*
- 2016-2021: Board of Management, *International Joseph A. Schumpeter Society*

Publications

Web of Science H Index: 15 (September 2020)

Books:

Buenstorf, G., U. Cantner, H. Hanusch, M. Hutter, H.-W. Lorenz and F. Rahmeyer (eds.) (2013). *The Two Sides of Innovation. Creation and Destruction in the Evolution of Capitalist Economies*, Berlin: Springer.

Buenstorf, G. (ed.) (2012). *Evolution, Organization and Economic Behavior*. Cheltenham: Edward Elgar.

Buenstorf, G. (2004). *The Economics of Energy and the Production Process: An Evolutionary Approach*. Cheltenham: Edward Elgar.

Journal Articles:

Koopmann, T., Stubbemann, M., Kapa, M., Paris, M., Buenstorf, G., Hanika, T., Hotho, A., Jäschke, R and Stumme, G. (2021). Proximity dimensions and the emergence of collaboration: a HypTrails study on German AI research. *Scientometrics*, online first.

Gifford, E., G. Buenstorf, D. Ljungberg, M. McKelvey and O. Zaring. (2021). Variety in founder experience and the performance of knowledge-intensive innovative firms. *Journal of Evolutionary Economics*, 31(2): 677-713.

Broström, A., Buenstorf, G., and McKelvey, M. (2021). The knowledge economy, innovation and the new challenges to universities: introduction to the special issue. *Innovation*, 23(2), 145-162.

Brunnström, L., G. Buenstorf and M. McKelvey. (2020). Exploring the Role(s) of Researcher-Based Projects in Swedish University Incubators. *Academy of Management Proceedings*, 101.

Bode, R., G. Buenstorf and D. P. Heinisch. (2020) Proximity and learning: evidence from a post-WW2 intellectual reparations program. *Journal of Economic Geography*, 20(3), 601-628.

Buenstorf, G., and J. König. (2020) Interrelated funding streams in a multi-funder university system: evidence from the German Exzellenzinitiative. *Research Policy*, 49(3) 103924.

Buenstorf, G., and D. P. Heinisch. (2020). When do firms get ideas from hiring PhDs? *Research Policy*, 49(3), 103913.

Buenstorf, G., and D. P. Heinisch (2020). Science and industry evolution: Evidence from the first 50 years of the German laser industry. *Small Business Economics*, 54(2), 523-538.

Bruns, S. B., I. Asanov, R. Bode, M. Dunger, C. Funk, S. M. Hassan, J. Hauschildt, D. Heinisch, K. Kempa, J. König, J. Lips, M. Verbeck, E. Wolfschütz and G. Buenstorf. (2019). Reporting errors and biases in published empirical findings: Evidence from innovation research. *Research Policy*, 48(9), 103796.

Binder, M., and G. Buenstorf. (2018). Smile or die: Can subjective well-being increase survival in the face of substantive health impairments? *Economics and Human Biology*, 31, 209–227.

Heinisch, D. P., and G. Buenstorf. (2018). The next generation (plus one): an analysis of doctoral students' academic fecundity based on a novel approach to advisor identification. *Scientometrics*, 117(1), 351–380.

Buenstorf, G., and C. Costa. (2018). Drivers of spin-off performance in industry clusters: Embodied knowledge or embedded firms? *Research Policy*, 47(3), 663-673.

Koenig, J., T. Brenner and G. Buenstorf. (2017). Regional effects of university funding: Excellence at the cost of regional disparity? *Review of Regional Research*, 37, 111–133.

Buenstorf, G., K. Nielsen and B. Timmermans. (2017). Steve Jobs or No Jobs? Entrepreneurial activity and performance among Danish college dropouts and graduates. *Small Business Economics*, 48(1), 179–197.

Buenstorf, G., C. Engel, S. Fischer and W. Gueth. (2016). Non-compete clauses, employee effort and spin-off entrepreneurship: A laboratory experiment. *Research Policy*, 45(10), 2113–2124.

Blankenberg, A. K. and G. Buenstorf. (2016). Regional co-evolution of firm population, innovation and public research? Evidence from the West German laser industry. *Research Policy*, 45(4), 857-868.

Heinisch, D., Ö. Nomaler, G. Buenstorf, K. Frenken and H. Lintsen. (2016). Same place, same knowledge – same people? The geography of non-patent citations in Dutch polymer patents. *Economics of Innovation and New Technology*, 25(6), 553-572.

Buenstorf, G. (2016). Schumpeterian incumbents and industry evolution. *Journal of Evolutionary Economics*, 26(4), 823-836.

Buenstorf, G., M. Geissler and S. Krabel. (2016). Locations of labor market entry by German university graduates: is (regional) beauty in the eye of the beholder? *Review of Regional Research*, 36(1), 29-49.

Agarwal, R., G. Buenstorf, W. M. Cohen and F. Malerba. (2015). The legacy of Steven Klepper: industry evolution, entrepreneurship, and geography. *Industrial and Corporate Change*, 24(4), 739-753.

Buenstorf, G., M. Fritsch and L. F. Medrano. (2015). Regional knowledge, organizational capabilities, and the emergence of the West German laser systems industry, 1975–2005. *Regional Studies*, 49(1), 59-75.

Schoen, A., D. Heinisch and G. Buenstorf. (2014). Playing the 'Name Game' to identify academic patents in Germany. *Scientometrics*, 101(1), 527-545.

Buenstorf, G. and M. Geissler. (2014). Like Doktorvater, like son? Tracing role model learning in the evolution of German laser research. *Jahrbücher für Nationalökonomie und Statistik (Journal of Economics and Statistics)*, 234, 158-184.

Buenstorf, G. and A. Schacht. (2013). We need to talk - or do we? Geographic distance and the commercialization of technologies from public research. *Research Policy*, 42, 465– 480.

Schoen, A. and G. Buenstorf. (2013). When do universities own their patents? An explorative study of patent characteristics and organizational determinants in Germany. *Industry and Innovation*, 20, 422–437.

Buenstorf, G. and M. Geissler. (2012). Not invented here: Technology licensing, knowledge transfer and innovation based on public research. *Journal of Evolutionary Economics*, 22, 481–511.

Von Proff, S., G. Buenstorf and M. Hummel. (2012). University patenting in Germany before and after 2002: What role did the professors' privilege play? *Industry and Innovation*, 19, 23-44.

Buenstorf, G., M. Fritsch and L. F. Medrano. (2012). Regionales Wissen und die räumliche Evolution der westdeutschen Lasersystem-Branche. *Zeitschrift für Wirtschaftsgeografie*, 56, 147-167. (modified German-language version of Buenstorf, Fritsch and Medrano (2015))

Buenstorf, G. and M. Geissler. (2011). The origins of entrants and the geography of the German laser industry. *Papers in Regional Science*, 90, 251-270.

Buenstorf, G. and C. Guenther (2011). No place like home? Relocation, capabilities, and firm survival in the German machine tool industry after World War II. *Industrial and Corporate Change*, 20, 1-28.

Buenstorf, G. and S. Klepper (2010). Why does entry cluster geographically? Evidence from the U.S. tire industry. *Journal of Urban Economics*, 68, 103-114.

Buenstorf, G. and S. Klepper (2010). Submarket dynamics and innovation: The case of the U.S. tire industry. *Industrial and Corporate Change*, 19, 1563-1587. (reprinted in: J. S. Metcalfe and R. Ramlogan (eds.) (2017). *Creative Destruction. The International Library of Critical Writings in Economics series*. Cheltenham: Edward Elgar).

Buenstorf, G. (2009). Is commercialization good or bad for science? Individual-level evidence from the Max Planck Society. *Research Policy*, 38, 281-292.

Buenstorf, G. (2009). Opportunity spin-offs and necessity spin-offs. *International Journal of Entrepreneurial Venturing*, 1, 22-40.

Buenstorf, G. and D. Fornahl. (2009). B2C - Bubble to cluster: The dot.com boom, spin-off entrepreneurship, and regional agglomeration. *Journal of Evolutionary Economics*, 19, 349-378.

Buenstorf, G. and S. Klepper. (2009). Heritage and agglomeration: the Akron tyre cluster revisited. *The Economic Journal*, 119, 705-733.

Buenstorf, G. and C. Cordes. (2008). Can sustainable consumption be learned? A model of cultural evolution. *Ecological Economics*, 67, 646-657.

Buenstorf, G. (2007). Evolution on the shoulders of giants: entrepreneurship and firm survival in the German laser industry. *Review of Industrial Organization*, 30, 179-202.

Buenstorf, G. (2007). Creation and pursuit of opportunities: an evolutionary economics perspective. *Small Business Economics*, 28, 323-337.

Buenstorf, G. (2006). How useful is generalized Darwinism as a framework to study competition and industrial evolution? *Journal of Evolutionary Economics*, 16, 511-527.

Buenstorf, G. and U. Witt. (2006). How problems of organizational growth in firms affect industry entry and exit. *Revue de l'Observatoire Francais des Conjonctures Economiques*, June, 47-62.

Buenstorf, G. (2005). Sequential production, modularity and technological change. *Structural Change and Economic Dynamics*, 16, 221-241.

Buenstorf, G. and J.P. Murmann. (2005). Ernst Abbe's scientific management: theoretical insights from a nineteenth-century dynamic capabilities approach. *Industrial and Corporate Change*, 14, 543-578.

Buenstorf, G. (2002). Über den Wettbewerb als allgemeines Aufdeckungs-, Ordnungs- und Erkundungsverfahren. *ORDO – Jahrbuch für die Ordnung von Wirtschaft und Gesellschaft*, 53, 189-205.

Buenstorf, G. (2000). Self-organization and sustainability: energetics of evolution and implications for ecological economics. *Ecological Economics*, 33, 119-134.

Book Chapters:

Buenstorf, G. (2021). Entry, exit and the evolution of firm populations in innovative industries. In: Cantner, U., M. Guerzoni and S. Vannuccini (eds.): *Handbook of Research Methods and Applications in Industrial Dynamics and Evolutionary Economics*, Cheltenham: Edward Elgar, in press.

Buenstorf, G. (2012). Introduction. In: Buenstorf, G. (ed.): *Evolution, Organization and Economic Behavior*. Cheltenham: Edward Elgar, pp. 1-20.

Buenstorf, G. and M. Habekost. (2011). Vom Kombinat zum Mittelstand: Unternehmens-Spin-offs in der ostdeutschen Systemtransformation. In: C. Dreger, R. Kosfeld and M. Türck (eds.): *Empirische Regionalforschung heute*. Wiesbaden: Gabler, pp. 235-257.

Buenstorf, G. (2010). Knowledge-based entrepreneurship and international technology transfer in the German laser industry. In: F. Malerba (ed.): *Knowledge-Intensive Entrepreneurship and Innovation Systems: Evidence from Europe*. London: Routledge, pp. 243-264.

Breschi, S., C. Lenzi, F. Malerba, M. L. Mancusi, G. Buenstorf, M. McKelvey, P. Llerena and K. Bishop. (2010). New innovators and knowledge-based entrepreneurship: Field analysis. In: F. Malerba (ed.): *Knowledge-Intensive Entrepreneurship and Innovation Systems: Evidence from Europe*. London: Routledge, pp. 179-197.

Buenstorf, G. (2008). Comparative industrial evolution and the quest for an evolutionary theory of market dynamics. In: W. Elsner and H. Hanappi (eds.): *Advancements in Evolutionary Institutional Economics*. Cheltenham: Edward Elgar, pp. 59-78.

Buenstorf, G. (2007). Complementarity, cognition and capabilities: towards an evolutionary theory of production. In: K. Nielsen and S. Ioannides (eds.): *Economics and Social Sciences: Boundaries, Interaction and Integration*. Cheltenham: Edward Elgar, pp. 262-288.

Buenstorf, G. (2003). Processes of knowledge sharing: from cognitive psychology to economics. In: E. Helmstädter (ed.): *The Economics of Knowledge Sharing. A New Institutional Approach*. Cheltenham: Edward Elgar, pp. 74-99.

Buenstorf, G. (2003). Designing clunkers: demand-side innovation and the early history of the mountain bike. In: J. S. Metcalfe; U. Cantner (eds.): *Change, Transformation and Development*. Heidelberg: Physica, pp. 53-70.

Buenstorf, G. (2002). Perspektiven des Wandels und Perspektiven Evolutorischer Ökonomik: einige einleitende Überlegungen. In: M. Lehmann-Waffenschmidt (ed.): *Perspektiven des Wandels – Evolutorische Ökonomik in der Anwendung*. Marburg: Metropolis, pp. 17-36.

Others:

Krücken, G., G. Buenstorf, U. Cantner, J. Frost, T. Grebel, J. Hamann, H. Hottenrott, A. Kosmützky, F. Meier, U. Schimank and K. Serrano Velarde (2021): Multipler Wettbewerb im Hochschulsystem – Interdisziplinäre Perspektiven und wissenschaftspolitische Implikationen. *Das Hochschulwesen*, in press.

König, J., A. Otto, G. Buenstorf, K. Briedis, F. Cordua, H. Schirmer (2021): Karriereentscheidungen und Karriereverläufe Promovierter – zur Multifunktionalität der Promotion. *Studien im Rahmen des Bundesberichts Wissenschaftlicher Nachwuchs (BuWiN) 2021*

Blume, L., T. Brenner, G. Buenstorf and J. Koenig (2020). Räumliche Implikationen verstärkter Drittmittelorientierung in der Hochschulfinanzierung. In: R. D. Postlep, L. Blume and M. Hülz (eds.): *Hochschulen und ihr Beitrag für eine nachhaltige Regionalentwicklung (Forschungsberichte der ARL 11)*. Hannover: Akademie für Raumforschung und Landesplanung, pp. 208-232.

Blume, L., T. Brenner and G. Buenstorf. (2017). Universities and sustainable regional development: introduction to the special issue. *Review of Regional Research*, 37, 103–109.

Buenstorf, G. (2012). Forschung und Markteintritt in der (ost-)deutschen Laserindustrie. In: U. Cantner and M. Ruffert (eds.): *Universität in Wirtschaft und Gesellschaft*. Jena: IKS Garamond, 2012, pp. 203-210.

Buenstorf, G., U. Cantner, H. Hanusch, H.-W. Lorenz and F. Rahmeyer. (2012). Editorial: the two sides of innovation. *Journal of Evolutionary Economics*, 22, 407–411

Buenstorf, G. (2008). Review of: S. Baumgärtner, M. Faber and J. Schiller: “Joint Production and Responsibility in Ecological Economics.” *Journal of Evolutionary Economics*, 18, 111-114.

Buenstorf, G. (2002). Massenmotorisierung: Dynamische Skalenerträge, Lernprozesse und Produktinnovation (Comment on R. Flik: “Motorisierung des Straßenverkehrs, Automobilindustrie und Wirtschaftswachstum in Europa und Übersee bis 1939.”). In: M. Lehmann-Waffenschmidt (ed.): *Perspektiven des Wandels – Evolutorische Ökonomik in der Anwendung*. Marburg: Metropolis, pp. 103-110.

Buenstorf, G., C. Cordes, W. Ruprecht, C. Sartorius and U. Witt. (2000). Langfristige wirtschaftliche Entwicklung – ein evolutionärer Ansatz. *Wirtschaftswissenschaftliches Studium*, 29, 711-713.

Buenstorf, G. and C. Sartorius. (1998). Selbstorganisation als 'Missing Link'? *Ökologisches Wirtschaften*, 3-4, 7-9.

Buenstorf, G. (1998). Review of: F. Söllner: "Thermodynamik und Umweltökonomie", *Kyklos* 51(3), 458-460.

Project Funding (selected)

"Wie beeinflusst der Wettbewerb der Hochschulen den Arbeitsmarkt für Promovierte?", funded by Deutsche Forschungsgemeinschaft (DFG), 2021-2024 (as part of DFG FOR 5234: Multipler Wettbewerb im Hochschulsystem: Akteurskonstitution, Handlungskoordination und Folgewirkungen)

"Qualitätssichernde Institutionen und Qualitätsentwicklungen bei wirtschafts- und sozialwissenschaftlichen Dissertationen in Deutschland (Q2D2)", funded by the Federal Ministry of Education and Research, 2020-23

"Transferbarometer", funded by Stifterverband für die deutsche Wissenschaft, 2020-21 (collaborative project)

"Kooperationsgruppe: Anreizstrukturen, Steuerungssysteme und Erkenntnisqualität – Wirtschaftsökonomie im Spannungsfeld von Ressourcenknappheit und epistemischer Ambition", funded by the University of Bielefeld Center for Interdisciplinary Research, 2019-20 (collaborative project)

"REGIO – eine Kartierung der Entstehung und des Erfolgs von Kooperationsbeziehungen in regionalen Forschungsverbänden und Innovationsclustern", funded by the Federal Ministry of Education and Research, 2018-21 (collaborative project)

"Forschungs-Rankings, Outputmessung, Nachwuchsrekrutierung, Themenwahl und Anreize zur Sorgfalt (FRONTAL)", funded by the Federal Ministry of Education and Research, 2018-21 (collaborative project)

"Showing Life Opportunities: Increasing opportunity-driven entrepreneurship and STEM careers through online courses in schools", 2018-2021, funded by: Innovation Growth Lab, World Bank Strategic Impact Evaluation Fund, Innovations for Poverty Action, EcoDec-LabEx, and INCHER-Kassel Innovation Fund (collaborative project)

"MOOCs After the Gold Rush: Welchen Einfluss haben offene digitale Lehrformate auf Anbieterstruktur und Geschäftsmodelle in der tertiären Bildung? (MOOC-AG)", funded by the Federal Ministry of Education and Research, 2017-19 (collaborative project)

"Bestimmungsfaktoren sozialer Ungleichheiten und Konsequenzen des Studienabbruchs und Studiengangwechsels (BUKSS)", funded by the Federal Ministry of Education and Research, 2017-2020 (collaborative project)

"Wissenschaftliche Karrieredynamiken in Deutschland im Zeitablauf (WISKIDZ)", funded by the Federal Ministry of Education and Research, 2013-2019

“Regionale Bildungsrenditen durch Beschäftigung von HochschulabsolventInnen (RE-BILD)”, funded by the Federal Ministry of Education and Research, 2011-2014

“Academic Patenting in Europe – Inventor Database (APE-INV)”, funded by the European Science Foundation, 2009-2013 (collaborative project)

“Advancing Knowledge-Intensive Entrepreneurship and Innovation for Economic Growth and Social Well-being in Europe (AEGIS)”, funded by the European Commission (6th framework program), 2009-2011 (collaborative project)

“Emergence and evolution of a spatial-sectoral system of innovation: Laser technology in Germany, 1960 to present (LASSSIE)”, funded by Volkswagen Foundation, 2007-2010 (collaborative project)

“Knowledge-based entrepreneurship: Innovation, networks and systems (KEINS)”, funded by the European Commission (6th framework program), 2005-2007 (collaborative project)

Editorship and Refereeing

Associate editor: Industrial and Corporate Change.

Editorial review board member: Small Business Economics.

Reviewer (journals) (selected): Academy of Management Review, Ecological Economics, Economic Geography, Industrial and Corporate Change, Industry and Innovation, Journal of Economic Behavior and Organization, Journal of Economic Geography, Journal of Evolutionary Economics, Journal of Business Venturing, Management Science, Organization Science, RAND Journal of Economics, Regional Studies, Research Policy, Small Business Economics, Southern Economic Journal, Strategic Management Journal.

Reviewer (funding agencies): DAAD, DFG, ERC, FWO, Leibniz Association, Max Planck Society, NSF, SSHRC Canada.

Media Coverage

“Es gibt noch immer kein deutsches Harvard”, *Frankfurter Allgemeine Zeitung*, April 15, 2021.

“Kampf ums Fördergeld: Wissenschaftler erforschen Regeln des Wettbewerbs von Universitäten”, *Hessisch-Niedersächsische Allgemeine*, Januar 11, 2021.

“Kunskap bärs av människor”, *Entré (Sweden)*, 2/2019.

“Auf den Punkt: Hochschulquartett; Sackgasse Universität – Hochschulnachwuchs in der Forschungsfalle?”, *Deutschlandfunk*, April 26, 2019 (panelist).

“Hut ab!”, *Wirtschaftswoche*, March 8, 2019.

“Das Studium als Weichensteller“, *Hessisch-Niedersächsische Allgemeine*, March 6, 2017.

“Taper på å droppe studier for gründerdrømmer”, *Dagens Naeringsliv (Norway)*, August 19, 2016.

“Steve Jobs bleibt die Ausnahme”, *Frankfurter Rundschau*, July 29, 2016.

“Studienabbrecher sind nicht die besseren Gründer”, *Wirtschaftswoche Gründer*, July 26, 2016.

“Lohnt sich Uni für Region?” *Hessisch-Niedersächsische Allgemeine*, April 30, 2012.

“Erfolg mit Ausgründungen”, *Hessisch-Niedersächsische Allgemeine*, Mai 30, 2011.

“How The Laser Came to Light”, *Max Planck Research*, 1/2010.

“Abschied vom Gleichgewicht”, *Handelsblatt*, August 16, 2010.

“Vom Dot-com zum Cluster”, *Ostthüringer Zeitung*, September 27, 2008.

“Eltern Glück in Jena”, *Brand Eins*, September 2007.

“Vererbte Erfolge”, *Technology Review (German edition)*, November 2006.

Memberships

American Economic Association, Gesellschaft für Hochschulforschung, International Joseph A. Schumpeter Society, Verein für Socialpolitik.