

# Publikationen & Software

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## Publikationen

### Fachjournale, mit peer review

- 2021 Rendtel, U., Liebig, S., Meister, R., Wagner, G., & Zinn, S. (2021) Die Erforschung der Dynamik der Corona-Pandemie in Deutschland: Survey-Konzepte und eine exemplarische Umsetzung mit dem Sozio-oekonomischen Panel (SOEP). *AStA Wirtschafts- und Sozialstatistisches Archiv*. Vol. 15, No. 2, <https://link.springer.com/article/10.1007/s11943-021-00296-x>.
- 2021 Bayer, M., Zinn, S., & Rüdiger, C. (2021) Grading in Secondary Schools in Germany - The Impact of Social Origin and Gender. *International Journal of Educational Research Open*. Vol. 2, No. 2. <https://doi.org/10.1016/j.ijedro.2021.100101>
- 2021 Wachtler, B., Neuhauser, H., Haller, S., Grabka, M., Zinn, S., Schaade, L. Hövener, C., & Hoebel, J. (2021) Infektionsrisiko mit SARS-CoV-2 für Beschäftigte in Gesundheitsberufen während der Pandemie in Deutschland – Ergebnisse einer bundesweiten seroepidemiologischen Studie. *Deutsches Ärzteblatt*. Online first. <http://dx.doi.org/10.3238/arztebl.m2021.0376>.
- 2021 Hoebel, J., Grabka, M., Schröder, C., Haller, S., Neuhauser, H., Wachtler, B., Schaade, L., Liebig, S., Hövener, C., & Zinn, S. (2021) Socioeconomic position and SARS-CoV-2 infections: seroepidemiological findings from a German nationwide dynamic cohort. *Journal of Epidemiology & Community Health*. Online first. <http://dx.doi.org/10.1136/jech-2021-217653>.
- 2021 Zinn, S. & Bayer, M. (2021) Time Spent on School-Related Activities at Home During the Pandemic: A Longitudinal Analysis of Social Group Inequality Among Secondary School Students. *Frontiers in Psychology*. Vol. 12, No. 3493, DOI:10.3389/fpsyg.2021.705107.
- 2021 Zinn, S., & Bayer, M. (2021) Subjektive Belastung der Eltern durch die Beschulung ihrer Kinder zu Hause zu Zeiten des Corona-bedingten Lockdowns im Frühjahr 2020 [Parents' subjective burdens of home schooling their children at times of the Corona-related lockdown in spring 2020]. *Zeitschrift für Erziehungswissenschaft*. Vol. 20, No. 2, DOI:10.1007/s11618-021-01012-9.
- 2021 Hoebel, J., Busch, M.A., Grabka, M.M., Zinn, S., Allen, J., Gößwald, A., ... & Lampert, T. (2021) Seroepidemiologische Studie zur bundesweiten Verbreitung von SARS-CoV-2 in Deutschland: Studienprotokoll von CORONA-MONITORING bundesweit (RKI-SOEP-Studie). *Journal of Health Monitoring, Special Issue 1*. [https://www.rki.de/DE/Content/Gesundheitsmonitoring/JoHM/2021/JoHM\\_Inhalt\\_21\\_S01.html](https://www.rki.de/DE/Content/Gesundheitsmonitoring/JoHM/2021/JoHM_Inhalt_21_S01.html)
- 2021 Kreyenfeld, M., & Zinn, S. (2021) Coronavirus & Care: How the Coronavirus Crisis Affected Fathers' Involvement in Germany. *Demographic Research*, 44, 99-124.

- 2020 Zinn, S., Landock, U., & Gnams, T. (2020) Web-based and mixed-mode cognitive large-scale assessments in higher education: An evaluation of selection bias, measurement bias, and prediction bias. *Behavior Research Methods*, 53(3), 1202-1217, DOI:10.3758/s13428-020-01480-7.
- 2020 Kühne, S., Kroh, M., Liebig, S., & Zinn, S. (2020) The Need for Household Panel Surveys in Times of Crisis: The Case of SOEP-CoV. *Survey Research Methods*. Vol. 14, No. 2, pp. 9999-10006.
- 2020 Zinn, S., & Gnams, T. (2020) Analyzing Nonresponse in Longitudinal Surveys Using Bayesian Additive Regression Trees: A Nonparametric Event History Analysis. *Social Science Computer Review*. Online first. <https://doi.org/10.1177/0894439320928242>
- 2020 Hammon, A., & Zinn, S. (2020) Multiple Imputation of Multilevel Data Using a Censored Bivariate Probit Model, *Journal of the Royal Statistical Society (Series C)*. Online first. <https://rss.onlinelibrary.wiley.com/doi/10.1111/rssc.12401>
- 2020 Zinn, S., Würbach, A., Steinhauer, H.W., & Hammon, A. (2020) Attrition and Selectivity of the NEPS Starting Cohorts: An Overview of the Past 8 Years. *AStA Wirtschafts- und Sozialstatistisches Archiv*, 14, 163-206.
- 2019 Steinhauer, H.W., Zinn, S., & Will, G. (2019). Sampling Refugees for an Educational Longitudinal Survey. *Special Issue Survey Methods: Insights from the Field (SMIF)*.
- 2018 Zinn, S., & Gnams, T. (2018). Modeling Competence Development in the Presence of Selection Bias. *Behavior Research Methods*, 50(6), 2426-2441.
- 2017 Willekens, F., Zinn, S., & Leuchter, M. (2017). Emigration Rates From Sample Surveys: An Application to Senegal. *Demography*, 54(6), 2159-2179.
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- 2017 Klabunde, A., Zinn, S., Willekens, F., & Leuchter, M. (2017). Multistate Modelling Extended by Behavioural Rules: An Application to Migration. *Population Studies*, 71(sup1), 51-67.
- 2015 Zinn, S. & A. Würbach (2015): A Statistical Approach to Address the Problem of Heaping in Self-Reported Income Data. *Journal of Applied Statistics*. 43(4), 682-703.
- 2015 Steinhauer, H. W., Abmann, C., Zinn, S., Goßmann, S., & Rässler, S. (2015). Sampling and Weighting Cohort Samples in Institutional Contexts. *AStA Wirtschafts- und Sozialstatistisches Archiv*, 9(2), 131-157.
- 2014 S. Zinn (2014). The MicSim Package of R: An Entry-Level Toolkit for Continuous-Time Microsimulation. In *International Journal of Microsimulation* 7(3), 3-32.
- 2013 Zinn, S., J. Himmelspach, Uhrmacher, A.M., & Gampe, J. (2013). Building MicCore, a Specialized M&S Software to Simulate Multi-State Demographic Micro Models, Based on JAMES II, a General M&S Framework. In *Journal of Artificial Societies and Social Simulation* 16(3)5.
- 2012 S. Zinn (2012). A Mate-Matching Algorithm for Continuous-Time Microsimulation Models. In *International Journal of Microsimulation* 5(1), 31-51.

### Preprints

- 2021 Neuhauser, H., Rosario, A. S., Butschalowsky, H., Haller, S., Hoebel, J., Michel, J., Nitsche, A., Poethko-Müller, C. Prütz, F., Schlaud, M., Steinhauer, H.W., Wilking, H., Wieler, L. Schaade, L., Liebig, S. Gößwald, A., Grabka, M., Zinn, S., & Ziese, T. (2021). Germany's low SARS-CoV-2 seroprevalence confirms effective containment in 2020: Results of the nationwide RKI-SOEP study. medRxiv. <https://www.medrxiv.org/content/10.1101/2021.11.22.21266711v1>.

### Buchkapitel, mit peer review

- 2017 Zinn, S. (2017). Simulating Synthetic Life Courses of Individuals and Couples, and Mate Matching. Book Chapter In Volume on Agent based Modelling in Population Studies. Springer Series on Demographic Methods and Population Analysis. Springer.
- 2016 Zinn, S. (2016). Variance Estimation With Balanced Repeated Replication: An Application for the Fifth- and Ninth-Grader Cohort Samples of the National Educational Panel Study. In H.-P. Blossfeld, J. von Maurice, J. Skopek, & Bayer, M. (Eds.), *Methodological Issues of Longitudinal Surveys* (pp.). Wiesbaden: Springer.
- 2016 Steinhauer, H. W., Zinn, S., & Aßmann, C. (2016). Weighting Panel Cohorts in Institutional Contexts. In H.P. Blossfeld, J. von Maurice, J. Skopek, & Bayer, M. (Eds.), *Methodological Issues of Longitudinal Surveys* (pp.). Wiesbaden: Springer.

### Buchkapitel, ohne peer review

- 2020 Zinn, S. (2020). Konzeption eines Simulationsmodells zur Formation von Bildungsentscheidungen. In M. Hannappel & J. Kopp (Hrsg.), *Mikrosimulation*. Springer VS Verlag.
- 2019 Zinn, S. (2019). Modellierung und Simulation von Entscheidungsprozesse im Rahmen Szenario-basierter Vorhersagen. In N. Saam, M. Resch, & A. Kaminski (Hrsg.), *Sozialwissenschaftlichen Simulationen und der Soziologie der Simulation* (Bd. 1). Springer.
- 2019 Aßmann, C., Steinhauer, H.W., Würbach, A., Zinn, S, Hammon. A., Kiesl, H., Rohwer, G., Rässler, S., & Blossfeld, H.-P. (2019). Sampling Design of the National Educational Panel Study: Setup and Panel Development. In H.-P. Blossfeld & H.-G. Roßbach (eds.), *Education as a Lifelong Process, Edition ZfE 3*. Springer Nature.
- 2015 Olczyk, M., Seuring, J., Will, G., & Zinn, S. (2015). Migranten und ihre Nachkommen im deutschen Bildungssystem: ein aktueller Überblick. *Sammelband Ethnische Ungleichheiten im Bildungverlauf: Mechanismen, Befunde, Debatten*. Springer.

### Working Paper

- 2021 Steinhauer, H.W., Zinn, S., & Siegers, R. (2021) SOEP-Core – 2020: Sampling, Non-response, and Weighting in Living in Germany – Nationwide Corona Monitoring (RKI-SOEP. SOEP Survey Papers 1076, Series C: Data Documentations.
- 2021 Stark, K., & Zinn, S. (2021) Using Mathematical Graphs for Questionnaire Testing in Large-Scale Surveys. (SOEPPapers 1135). Berlin: SOEP/DIW.
- 2020 Siegers, R., Steinhauer, H.W., & Zinn, S. (2020) Gewichtung der SOEP-CoV-Studie 2020. SOEP Survey Papers 888, Series C: Data Documentations.

- 2020 Kreyenfeld, M., Zinn, S., Entringer, T., Goebel, J., Grabka, M., . . . , & Seebauer, J. (2020) Coronavirus & Care: How the Coronavirus Crisis Affected Fathers' Involvement in Germany (SOEPpapers 1096). Berlin: SOEP/DIW.
- 2020 Zinn, S., Bayer, M., Entringer, T., Goebel, J., Grabka, M., . . . , & Seebauer, J. (2020) Subjektive Belastung der Eltern durch Schulschließungen zu Zeiten des Corona-bedingten Lockdowns (SOEPpapers 1097). Berlin: SOEP/DIW.
- 2020 Rendtel, U., Meister, R., Goebel, J., Gößwald, A., Grabka, M.G., Hoebel, J., Schlaud, M., Schroeder, C., Wagner, G.G., Zinn, S., Liebig, S., & Lampert, T. (2020) Ein interdisziplinäres Studienkonzept zur Dynamik von COVID-19 auf der Basis der prospektiv erhobenen Daten der Kohorten des Sozio-oekonomischen Panels (SOEP) (SOEPpapers 1094). Berlin: SOEP/DIW.
- 2020 Kühne, S., Kroh, M., Liebig, S., Rees, J., Zick, A., . . . , & Zinn, S. (2020) Gesellschaftlicher Zusammenhalt in Zeiten von Corona: Eine Chance in der Krise? (SOEPpapers 1091). Berlin: SOEP/DIW.
- 2020 Entringer, T., Kröger, H., Schupp, J., Kühne, S., Liebig, S., . . . , & Zinn, S. (2020) Psychische Krise durch Covid-19? Sorgen sinken, Einsamkeit steigt, Lebenszufriedenheit bleibt stabil (SOEPpapers 1087). Berlin: SOEP/DIW.
- 2020 Schröder, C., Entringer, T., Goebel, J., Grabka, M., . . . & , Zinn, S. (2020) Covid-19 is not affecting all working people equally (SOEPpapers 1083). Berlin: SOEP/DIW.
- 2019 Zinn, S. (2019). Konzeption eines Simulationsmodells zur Formation von Übertrittentscheidungen auf das Gymnasium (NEPS Working Paper 81). Bamberg, Deutschland: Leibniz-Institut für Bildungsverläufe, Nationales Bildungspanel.
- 2019 Bayer, M., & Zinn, S. (2019). Zur Entwicklung des Zusammenhangs und der Erklärbarkeit von Leistungen und Kompetenzen bei Schülerinnen und Schülern der Sekundarstufe I (NEPS Working Paper 77). Bamberg, Deutschland: Leibniz-Institut für Bildungsverläufe, Nationales Bildungspanel.
- 2018 Zinn, S., Würbach, A., Steinhauer, H.W. & Hammon, A. (2018). Attrition and Selectivity of the NEPS Starting Cohorts: An Overview of the Past 8 Years (NEPS Survey Paper No. 34). Bamberg, Germany: Leibniz Institute for Educational Trajectories, National Educational Panel Study.
- 2017 Zinn, S., Steinhauer, H.W., & Aßmann, C. (2017). Samples, Weights, and Nonresponse: the Student Sample of the National Educational Panel Study (Wave 1 to 8) (NEPS Survey Paper No. 18). Bamberg, Germany: Leibniz Institute for Educational Trajectories, National Educational Panel Study.
- 2016 Hammon, A., Zinn, S., Aßmann, C., & Würbach, A. (2016). Samples, Weights, and Nonresponse: the Adult Cohort of the National Educational Panel Study (Wave 2 to 6) (NEPS Survey Paper No. 7). Bamberg: Leibniz Institute for Educational Trajectories, National Educational Panel Study
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- 2016 Steinhauer, H. W., & Zinn, S. (2016). NEPS Technical Report for Weighting: Weighting the Sample of Starting Cohort 3 of the National Educational Panel Study (Waves 1 to 3), (NEPS Working Paper No. 63). Bamberg: Leibniz Institute for Educational Trajectories, National Educational Panel Study.

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- 2016 Steinhauer, H. W., Zinn, S., Gaasch, C., & Goßmann, S. (2016). NEPS Technical Report for Weighting: Weighting the sample of Kindergarten children and Grade 1 students of the National Educational Panel Study (Wave 1 to 3), NEPS Working Paper No. 66, Bamberg: Leibniz Institute for Educational Trajectories, National Educational Panel Study.
- 2015 Klabunde, A., Willekens, F., Zinn, S. & Leuchter, M. (2015). An Agent-Based Decision Model of Migration, Embedded in the Life Course - Model Description in ODD+D Format, MPIDR Working Paper WP-2015-002, Rostock: Max Planck Institute for Demographic Research.
- 2015 Zinn, S., Aßmann, C. & Würbach, A. (2015). Sampling and Weighting the Sample of the Adult Cohort of the National Educational Panel Study (Wave 2 to 5), Technical Report on SUF SC6 Version 5.0.0, Bamberg: Leibniz Institute for Educational Trajectories, National Educational Panel Study.
- 2015 Steinhauer, H. W., & Zinn, S. (2015). NEPS Technical Report for Weighting: Weighting the Sample of Starting Cohort 3 of the National Educational Panel Study (Waves 1 to 3), NEPS Working Paper No. 63, Bamberg: Leibniz Institute for Educational Trajectories, National Educational Panel Study.
- 2015 Aßmann, C., Zinn, S. & Würbach, A. (2015): Sampling and Weighting the Sample of the Early Childhood Cohort of the National Educational Panel Study (Waves 1 and 2), NEPS Technical Report on SUF SC1 Version 2.0.0, Bamberg: Leibniz Institute for Educational Trajectories.
- 2014 Zinn, S. and Würbach, A. (2014). A Statistical Approach to Account for Heaping Patterns: An Application to Self-Reported Income Data. NEPS Working Paper No. 40. Bamberg: Leibniz Institute for Educational Trajectories, National Educational Panel Study.
- 2013 S. Zinn (2013). An Imputation Model For Multilevel Binary Data, NEPS Working Paper No. 31, Bamberg: Leibniz Institute for Educational Trajectories, National Educational Panel Study.
- 2013 Aßmann, C., Steinhauer, H.W., Zinn, S, & Goßmann, S. (2013). Sampling and Weighting the Kindergarten Cohort Sample of the National Educational Panel Study, NEPS Working Paper No. 29, Bamberg: Leibniz Institute for Educational Trajectories, National Educational Panel Study.
- 2013 S. Zinn (2013). Replication Weights for the Cohort Samples of Students in Grade 5 and 9 in the National Educational Panel Study, NEPS Working Paper No. 27, Bamberg: Leibniz Institute for Educational Trajectories, National Educational Panel Study.

#### Konferenzbeiträge

- 2014 Würbach, A., & Zinn, S. (2015). Estimation of a general heaping model via random-walk Metropolis algorithms. In H. Friedl & H. Wagner (Eds.), Proceedings of the 30th International Workshop on Statistical Modelling, Vol. 1.

- 2014 Steiniger, A., Uhrmacher, A.M., Zinn, S., Gampe, J., & Willekens, F. (2014). The Role of Languages for Modeling and Simulating Continuous-Time Multi-Level Models in Demography. In A. Tolk, S.D. Diallo, I. O. Ryzhov, L. Yilmaz, S. Buckley & J. A. Miller (Eds.), Proceedings of the 2014 Winter Simulation Conference.
- 2010 Zinn, S., Gampe, J., Himmelspach, J., & Uhrmacher, A.M. (2010). A DEVS Model for Demographic Microsimulation. In Spring Simulation Multi-Conference - Symposium on Theory of Modeling & Simulation - DEVS Integrative M&S Symposium (DEVS), 87-94, San Diego, 2010. SCS Publishing House.
- 2010 Ogurtsova, E., Gampe, J., & Zinn, S. (2010). Practical Population Forecasting by Microsimulation: Application of the MicMac Software. In Conference of European Statisticians, Joint Eurostat/UNECE Work Session on Demographic Projections (28-30 April 2010, Lisbon, Portugal), Item 12 - Stochastic techniques for demographic projections. United Nations Statistical Commission and Economic Commission for Europe, Statistical Office of the European Union (EUROSTAT).
- 2010 S. Zinn (2010). A Mate-Matching Algorithm for Continuous-Time Microsimulation Models. In Conference of European Statisticians, Joint Eurostat/UNECE Work Session on Demographic Projections (28-30 April 2010, Lisbon, Portugal), Item 12 - Stochastic Techniques for Demographic Projections. United Nations Statistical Commission and Economic Commission for Europe, Statistical Office of the European Union (EUROSTAT).
- 2009 Zinn, S., Himmelspach, J., Gampe, J., & Uhrmacher, A. M. (2009). Mic-core: A tool for Microsimulation. In Rossetti, M. D., Hill, R. R., Johansson, B., Dunkin, A., & Ingalls, R.G. (Eds.), Proceedings of the 2009 Winter Simulation Conference.
- 2009 Gampe, J., Zinn, S., Willekens, F., van der Gaag, N., de Beer, J., Himmelspach, J., & Uhrmacher, A.M. (2009). The Microsimulation Tool of the MicMac-Project. In 2nd General Conference of the International Microsimulation Association, Ottawa.

#### Andere Publikationen

- 2021 Zinn, S., & Bayer, M. (2021). Schule in der Pandemie: Lernzeiten der Kinder hängen auch von der Bildung der Eltern ab (DIW Aktuell 63 / 2021). Berlin: SOEP/DIW.
- 2020 Hübner, M., Spieß, K., & Zinn, S. (2020). SchülerInnen in Corona-Zeiten: Teils deutliche Unterschiede im Zugang zu Lernmaterial nach Schultypen und -trägern. DIW Wochenbericht 47 / 2020, S. 853-860.
- 2020 Zinn, S., Kreyenfeld, M., & Bayer, M. (2020). Kinderbetreuung in Corona-Zeiten: Mütter tragen die Hauptlast, aber Väter holen auf (DIW Aktuell 51 / 2020). Berlin: SOEP/DIW.
- 2020 Schröder, C., Entringer, T., Goebel, J., Grabka, M., ..., & Zinn, S. (2020). Vor dem Covid-19-Virus sind nicht alle Erwerbstätigen gleich (DIW Aktuell 41 / 2020). Berlin: SOEP/DIW.

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#### Software

- 2017 Multistate Modeling Extended by Behavioral Rules (Version 1.5.0). Mit Klabunde, A., Willekens, F., & Leuchter, M. CoMSES Computational Model Library. <https://www.comses.net/codebases/5146/releases/1.5.0/>
- 2016 R package MicSim: Performing Continuous-Time Microsimulation. <http://cran.r-project.org/web/packages/MicSim/index.html>

- 2015 Demographic Microsimulation for Individuals and Couples (Version 1.0.0). CoMSES Computational Model Library. <https://www.comses.net/codebases/4490/releases/1.0.0/>
- 2011 Software für das Projekt „Bridging the micro-macro gap in population forecasting (MicMac)“. <http://www.nidi.nl/en/research/al/micmac/software>