Simon Wiegrebe

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Date of birth: 21 September 1992
Place of birth: Regensburg, Germany
Nationality: German

Google Scholar | ORCiD | LinkedIn

EDUCATION

LMU Munich — **Munich, Germany**
PhD candidate in Statistics — November 2021 – present

LMU Munich — **Munich, Germany**
*MSc in Statistics (**Ø**: 1.08)* — October 2019 – October 2021

University of Cambridge — **Cambridge, United Kingdom**
*MPhil in Economics (**GPA**: 73/100)* — September 2016 – July 2017

Universidad de Buenos Aires — **Buenos Aires, Argentina**
*Exchange semester at the Faculty of Economics (**GPA**: 9.0/10)* — August 2014 – December 2014

Erasmus University Rotterdam — **Rotterdam, The Netherlands**
*B.Sc. Economics & Business Economics (**GPA**: 9.2/10; top 1%; summa cum laude)* — September 2012 – July 2015

WORK EXPERIENCE (selected)

LMU Munich & University of Regensburg — **Munich, Germany**
Graduate Research and Teaching Assistant at the Statistical Consulting Unit StaBLab (Department of Statistics, LMU Munich) and the Department for Genetic Epidemiology (University of Regensburg) — November 2021 – present

- **Teaching:**
  - LMU Munich: Statistical Modelling, Lineare Modelle, Survival Analysis, Einführung in die statistische Datenanalyse (mit R), Statistical Consulting
  - University of Regensburg: Biometrie und medizinische Informatik, Advanced Regression Models
- **Research:**
  - Survival analysis: deep learning, reduction techniques, multi-state modeling and its application to longitudinal data
  - Longitudinal modeling of progression phenotypes and their genetic determinants
- **Consulting:**
  - Statistical consulting for students and researchers (e.g., free student counseling, research collaborations)
  - Cooperations with non-academic partners (e.g., with government agencies or NGOs)

LMU Munich — **Munich, Germany**
Research Assistant at the Chair of Statistical Learning, Department of Statistics — October 2020 – October 2021

- Survival analysis using (combinations of) statistical, machine learning, and deep learning methods
- Multimodal learning and its application to survival analysis

LMU Munich — **Munich, Germany**
Teaching Assistant at the Department of Statistics — April 2020 – September 2021

- Teaching Assistant for the Bachelor‘s courses *Statistik I&II für Studierende der Wirtschaftswissenschaften*

CRISIL Argentina — **Buenos Aires, Argentina**
Credit Risk Analyst — December 2017 – August 2019

- Validation of credit risk models for a tier-1 US bank
- Validation, model performance testing, stress testing, documentation

KPMG — **Frankfurt, Germany**
Internship Business Research & Analysis — January 2016 – May 2016

- Active support in industry and company analyses
- Conducting industry and company research, preparing corresponding reports and presentations

UniCredit **Munich, Germany**
Internship Equity Capital Markets August 2015 – December 2015

- Active support in capital market transactions and company valuations, preparation of client presentations
- Conducting market and industry research, analysis of capital market trends, creation of shareholder analyses

Erasmus University Rotterdam **Rotterdam, the Netherlands**
Teaching Assistant at the Erasmus School of Economics January 2015 – June 2015

- Teaching Assistant for the Bachelor's courses *Macroeconomics* and *Intermediate Accounting*

SKILLS, ACTIVITIES & INTERESTS

Social work:

- **OpenDiagnostics (10/2016 – 07/2017):** founded as a Development iTeam at the University of Cambridge, OpenDiagnostics are working to develop and promote a new type of open-source, paper-based diagnostic. Proof-of-concept for similar tests has already been demonstrated for detecting Zika and Ebola viruses. Since they are low-cost, thermally stable, and easy-to-use, these strips are well suited to bring diagnostic capabilities to the Global South – across areas spanning healthcare, agriculture, and environmental monitoring.
- **Scholarship project (05/2012 – 12/2019):** Setting up and directing a scholarship project for underprivileged Peruvian students; in charge of finances; maintaining personal contact with the Peruvian students, the local project supervisor and the project supporters in Germany via annual reports as well as regular visits to Arequipa.
- **Voluntary service *weltwärts* (08/2011 – 08/2012):** Working as a volunteer at the schools and children's homes of CIRCA-MAS (Arequipa, Peru) in the course of *weltwärts* (programme by the German Federal Ministry of Economic Cooperation and Development); teaching basic English, helping with homework, supporting and organising social projects.

Academics:
Bachelor Honours Class 2012-2014 (Erasmus University Rotterdam), Dean's List 2013-2014 (Erasmus University Rotterdam)

Scholarships:
Studienstiftung des deutschen Volkes (German National Academic Foundation), 04/2015 – 07/2017; e-fellows.net (online career scholarship), 08/2013 – 07/2015

Languages:
German (native), English (fluent), Spanish (fluent), Dutch (conversational), Portuguese (basic), Italian (basic), Latin (Großes Latinum – certificate of advanced proficiency)

Interests:
Sports (football, martial arts), debating (member of the Erasmus Debating Society for 3 years), dancing (member of the Erasmus Dancing Society for 2 years)

Statistical software and programming:
Python, R (advanced); Stata, SAS, EViews, SPSS (basic)

PUBLICATIONS

Gorski, M., **Wiegrebe, S.**, Burkhardt, R., Behr, M., Küchenhoff, H., Stark, K. J., Böger, C. A., & Heid, I. M. (2025). Bias-corrected serum creatinine from UK Biobank electronic medical records generates an important data resource for kidney function trajectories. *Scientific Reports*, *15*(1), 3540.

Winkler, T. W., **Wiegrebe, S.**, Herold, J. M., Stark, K. J., Küchenhoff, H., & Heid, I. M. (2024). Genetic-by-age interaction analyses on complex traits in UK Biobank and their potential to identify effects on longitudinal trait change. *Genome Biology*, *25*(1), 300. https://doi.org/10.1186/s13059-024-03439-9

Wiegrebe, S., Gorski, M., Herold, J. M., Stark, K. J., Thorand, B., Gieger, C., Böger, C. A., Schödel, J., Hartig, F., & Chen, H. (2024). Analyzing longitudinal trait trajectories using GWAS identifies genetic variants for kidney function decline. *Nature Communications*, *15*(1), 10061.

Herold, J. M., **Wiegrebe, S.**, Nano, J., Jung, B., Gorski, M., Thorand, B., Koenig, W., Zeller, T., Zimmermann, M. E., & Burkhardt, R. (2024). Population-based reference values for kidney function and kidney function decline in 25-to 95-year-old Germans without and with diabetes. *Kidney International*, *106*(4), 699–711.

Ibach, M. J., Dahlke, P. M., **Wiegrebe, S.**, Hentschel, F., & Siemssen, B. (2024). Medium-term outcomes after magnetic sphincter augmentation vs. fundoplication for reflux disease due to hiatal hernia: A propensity-score matched comparison in 282 patients. *Surgical Endoscopy*, *38*(9), 5068–5075. https://doi.org/10.1007/s00464-024-11011-6

Strobach, D., Chiriac, U., Klausner, S., Krebs, S., Langebrake, C., Querbach, C., Schuhmacher, C., Schulte, R., **Wiegrebe, S.**, & Amann, U. (2024). Factors Determining Quality of Drug Information by Hospital Pharmacies—Results from Five-Year Annual Quality Assessment. *Pharmacy*, *12*(4), 109.

Schulze, P., **Wiegrebe, S.**, Thurner, P. W., Heumann, C., & Aßenmacher, M. (2024). A Bayesian approach to modeling topic-metadata relationships. *AStA Advances in Statistical Analysis*, *108*(2), 333–349. https://doi.org/10.1007/s10182-023-00485-9

Wiegrebe, S., Kopper, P., Sonabend, R., Bischl, B., & Bender, A. (2024). Deep learning for survival analysis: A review. *Artificial Intelligence Review*, *57*(3), 65. https://doi.org/10.1007/s10462-023-10681-3

Peterhoff, D., **Wiegrebe, S.**, Einhauser, S., Patt, A. J., Beileke, S., Günther, F., Steininger, P., Niller, H. H., Burkhardt, R., & Küchenhoff, H. (2023). Population-based study of the durability of humoral immunity after SARS-CoV-2 infection. *Frontiers in Immunology*, *14*, 1242536.

The COVID-19 Host Genetics Initiative. A second update on mapping the human genetic architecture of COVID-19. (2023). A second update on mapping the human genetic architecture of COVID-19. *Nature*, *621*(7977), E7–E26.

Reinkemeyer, C., Khazaei, Y., Weigert, M., Hannes, M., Le Gleut, R., Plank, M., ... **Wiegrebe, S.**, … & Castelletti, N. (2023). The Prospective COVID-19 Post-Immunization Serological Cohort in Munich (KoCo-Impf): Risk Factors and Determinants of Immune Response in Healthcare Workers. *Viruses*, *15*(7), 1574.

Rügamer, D., Bender, A., **Wiegrebe, S.**, Racek, D., Bischl, B., Müller, C. L., & Stachl, C. (2023). Factorized Structured Regression for Large-Scale Varying Coefficient Models. In M.-R. Amini, S. Canu, A. Fischer, T. Guns, P. Kralj Novak, & G. Tsoumakas (Eds.), *Machine Learning and Knowledge Discovery in Databases* (Vol. 13717, pp. 20–35). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-26419-1_2

Donhauser, F. J., Zimmermann, M. E., Steinkirchner, A. B., **Wiegrebe, S.**, Dietl, A., Brandl, C., Burkhardt, R., Gessner, A., Schweda, F., & Bergler, T. (2023). Cardiovascular risk factor control in 70-to 95-year-old individuals: Cross-sectional results from the population-based AugUR study. *Journal of Clinical Medicine*, *12*(6), 2102.

Günther, F., Einhauser, S., Peterhoff, D., **Wiegrebe, S.**, Niller, H. H., Beileke, S., Steininger, P., Burkhardt, R., Küchenhoff, H., & Gefeller, O. (2022). Higher Infection Risk among Health Care Workers and Lower Risk among Smokers Persistent across SARS-CoV-2 Waves—Longitudinal Results from the Population-Based TiKoCo Seroprevalence Study. *International Journal of Environmental Research and Public Health*, *19*(24), 16996.

Einhauser, S., Peterhoff, D., Beileke, S., Günther, F., Niller, H. H., Steininger, P., … **Wiegrebe, S.**, ... & Wagner, R. (2022). Time trend in SARS-CoV-2 seropositivity, surveillance detection-and infection fatality ratio until spring 2021 in the Tirschenreuth County—Results from a population-based longitudinal study in Germany. *Viruses*, *14*(6), 1168.

Kopper, P., **Wiegrebe, S.**, Bischl, B., Bender, A., & Rügamer, D. (2022). DeepPAMM: Deep Piecewise Exponential Additive Mixed Models for Complex Hazard Structures in Survival Analysis. In J. Gama, T. Li, Y. Yu, E. Chen, Y. Zheng, & F. Teng (Eds.), *Advances in Knowledge Discovery and Data Mining* (Vol. 13281, pp. 249–261). Springer International Publishing. https://doi.org/10.1007/978-3-031-05936-0_20