

Dr. Paul Schmidt

DATA SCIENTIST / BIOSTATISTICIAN

Hamburg, Germany

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Professional experience _

BioMath - Applied Statistics and Informatics in Life Sciences

Rostock & Hamburg, Germany

DATA SCIENTIST

Jan 2019 - Present

- Various statistical analyses from raw data to final report for e.g. yearly post-market monitoring (survey; agriculture), risk assessment (meta-analysis; epidemiology), a long-term field trial (experiment; environment), geographic distribution (geospatial; administrative office)
- Implement new / streamline existing SOPs (for e.g. systematic literature reviews and meta-analyses) by making better use of in-depth functionality of established software and additionally via introducing complementing software/tools
- Supervise project communication and time management
- · Conduct in-depth research, write scientific reports and proofread especially English tender application, report and publication drafts

Freelancer (part-time) see 'Teaching' section below

Workshop Instructor Nov 2018 - Present

- · Develop and teach workshops on statistics in R; specific content and language according to the contractor
- Provide corresponding material on my websites (see 'Other skills' section below)

University of Hohenheim Stuttgart, Germany

RESEARCH ASSOCIATE Sep 2015 - Dec 2018

- Personalized consulting (ranging from single-appointment to project-accompanying) for students and research associates in terms of experimental design, data handling, statistical analyses and/or presentation of results
- · Develop, conduct and manage yearly statistical analysis of yield stability data for external company
- Develop, organize and teach workshops in statistics, R and SAS
- Supervise student writing his MSc thesis

BioMath - Applied Statistics and Informatics in Life Sciences

Rostock, Germany Jan 2015 - Aug 2015

Streamline statistical analyses of monitoring data

• Implement SOP for systematic literature reviews

Education

JUNIOR DATA SCIENTIST

University of Hohenheim

Stuttgart, Germany Sep 2015 - Nov 2019

DR. SC. AGR.

• DFG-funded PhD student in the biostatistics unit of Prof. Dr. Hans-Peter Piepho

· Cumulative doctoral thesis: 'Estimating heritability in plant breeding programs' graded 'magna cum laude'

Purdue University West Lafayette, IN, USA

VISITING PHD STUDENT

Sep 2015 - Dec 2015

- Visiting PhD student in the statistical bioinformatics unit of Prof. Dr. Rebecca Whitbeck Doerge
- Arranged on personal initiative, this collaboration allowed for scientific exchange and inspiration at the beginning of my PhD

University of Hohenheim
MSc Crop Science: Plant Breeding

Stuttgart, Germany Oct 2012 - Dec 2014

- Specialization in biostatistics and plant breeding (final grade 1.4)
- · MSc Thesis: 'Statistical Evaluation and Analysis of PACTS trials as a series of on-farm strip trials without replicates' graded 1.0

University of Hohenheim

Stuttgart, Germany

BSc Agribiology (in german)

Oct 2009 - Sep 2012

- Specialization in plant sciences and genetics (final grade 1.9)
- BSc Thesis: 'Cumulative effects of glyphosate trace concentrations during root exposition of winter wheat' graded 1.0

Alexander Central High School

Taylorsville, NC, USA

Aug 2006 - Jul 2007

STUDENT EXCHANGE YEAR

• Completed senior year and obtained high school diploma

Juli, 2021 Dr. Paul Schmidt · Curriculum Vitae 1/2

Other skills

collaboration, communication, structure, time management, strategic oversight, problem solving

German (native), English (effective operational proficiency) Languages

Software R, SAS, SPSS, ASReml, Excel, Word, PowerPoint, Citavi, Adobe Acrobat Pro, Latex, C#, SQL

Statistics (generalized) linear (mixed) models, exploratory & descriptive data analysis, experimental design

Presentation data visualization, data analysis reports, scientific publications, presentations

Websites https://schmidtpaul.github.io/MMFAIR/0contactinfo.html

Teaching

Jul 2021 Instructor Data science for life sciences with R (part 2)

May 2021 **Instructor** Data science for life sciences with R (part 1)

Mar 2021 **Instructor** Data science for life sciences with R (part 2)

Nov 2020 Instructor Planning exp. designs, rep. measures, and their analyses in R

Nov 2020 **Instructor** Data science for life sciences with R (part 1)

Oct 2020 Instructor Experimental Design - Practicals in R

Mar 2020 Instructor Real-time consultation on statistics and mixed models in R

Dec 2019 Instructor Basics of applied statistics

Nov 2019 **Instructor** Data science for life sciences with R (part 2)

Oct 2019 **Instructor** Data science for life sciences with R (part 1)

Sep 2019 Instructor Essential basics of statistics

Nov 2018 Instructor Mixed models with R

May 2018 Instructor Implementation of yield stability assessment with ASReml-R

2016-2018 Instructor Statistical analysis with SAS (monthly)

2016-2018 **Instructor** Statistical analysis with R (monthly)

2016-2018 Teaching Assistant Biometrics / Statistics (weekly)

Thünen Inst. Braunschweig (via zoom), 3d

Thünen Inst. Braunschweig (via zoom), 3d

Thünen Inst. Braunschweig (via zoom), 3d

Kassel Univ. (via zoom), 2d

Thünen Inst. Braunschweig (via zoom), 3d

CIHEAM Zaragoza (via zoom), 2d

Kassel Univ., 2d

Rostock Univ., 2d

Thünen Inst. Braunschweig, 3d

Thünen Inst. Braunschweig, 3d

Rostock Univ., 2d

Thünen Inst. Braunschweig, 3d

Bangladesh Rice Research Inst., Gazipur, 3h

Univ. of Hohenheim, Stuttgart, 3d

Univ. of Hohenheim, Stuttgart, 3d

Univ. of Hohenheim, Stuttgart, 4h

Scientific publications.

Buntaran, H., Piepho, H.-P., Schmidt, P., Ryden, J., Halling, M., & Forkman, J. (2020). Cross-validation of stagewise mixed-model 1 analysis of swedish variety trials with winter wheat and spring barley. Crop Science, 60(5), 2221-2240. https://doi.org/10. 1002/csc2.20177

Kukowski, S., Schmidt, P., Piepho, H.-P., Roehl, M., Hauffe, H.-K., & Streck, T. (2020). Auswirkungen atmosphaerischer stickstoffein-2. traege auf magere flachland-maehwiesen in baden-wuerttemberg. Natur Und Landschaft, 95(2), 58-67. https://doi.org/10. 17433/2.2020.50153773.58-67

3. Schmidt, P. (2019). Estimating heritability in plant breeding programs. In Dissertation to obtain the doctoral degree of Agricultural Sciences (Dr. sc. agr.): Vol. - (Issue -, p. -). https://doi.org/-

4. Schmidt, P., Hartung, J., Bennewitz, J., & Piepho, H.-P. (2019). Heritability in plant breeding on a genotype-difference basis. Genetics, 212(4), 991-1008. https://doi.org/10.1534/genetics.119.302134

5. Schmidt, P., Hartung, J., Rath, J., & Piepho, H.-P. (2019). Estimating broad-sense heritability with unbalanced data from agricultural cultivar trials. Crop Science, 59(2), 525-536. https://doi.org/10.2135/cropsci2018.06.0376

Schmidt, P., Moehring, J., Koch, R. J., & Piepho, H.-P. (2018). More, larger, simpler: How comparable are on-farm and on-station 6. trials for cultivar evaluation? Crop Science, 58(4), 1508-1518. https://doi.org/10.2135/cropsci2017.09.0555

Tulinska, J., Adel-Patient, K., Bernard, H., Liskova, A., Kuricova, M., Ilavska, S., Horvathova, M., Kebis, A., Rollerova, E., Babincova, J., 7. Alacova, R., Wal, J.-M., Schmidt, K., Schmidtke, J., Schmidt, P., Kohl, C., Wilhelm, R., Schiemann, J., & Steinberg, P. (2018). Humoral and cellular immune response in wistar han RCC rats fed two genetically modified maize MON810 varieties for 90 days (EU 7th framework programme project GRACE). Archives of Toxicology, 92(7), 2385-2399. https://doi.org/10.1007/s00204-018-2230-z

8. Schmidt, K., Schmidtke, J., Schmidt, P., Kohl, C., Wilhelm, R., Schiemann, J., van der Voet, H., & Steinberg, P. (2017). Variability of control data and relevance of observed group differences in five oral toxicity studies with genetically modified maize MON810 in rats. Archives of Toxicology, 91(4), 1977-2006. https://doi.org/10.1007/s00204-016-1857-x

9. Zeljenkova, D., Alacova, R., Ondrejkova, J., Ambrusova, K., Bartusova, M., Kebis, A., Kovriznych, J., Rollerova, E., Szabova, E., Wimmerova, S., Cernak, M., Krivosikova, Z., Kuricova, M., Liskova, A., Spustova, V., Tulinska, J., Levkut, M., Revajova, V., Sevcikova, Z., ... Steinberg, P. (2016). One-year oral toxicity study on a genetically modified maize MON810 variety in wistar han RCC rats (EU 7th framework programme project GRACE). Archives of Toxicology, 90(10), 2531-2562. https://doi.org/10.1007/ s00204-016-1798-4