

r. Paul Schmidt

Hamburg, Germany

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I am an analytically thinking, solution-orientied team player and confident that my academic background, reliable work ethic and international experience in communicating data science will make me an immediate asset at Corteva Agriscience and allow me to contribute to the team's success.

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 (metaanalysis; 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 functionaliy 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

· Personalized consulting (ranging from single-appointment to project-accompanying) for students and research associates in terms of experi-

- mental 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

Sep 2015 - Dec 2018

JUNIOR DATA SCIENTIST

Jan 2015 - Aug 2015

- · Streamline statistical analyses of monitoring data
- Implement SOP for systematic literature reviews

Education

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

Stuttgart, Germany

MSc Crop Science: Plant Breeding

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

1/2

STUDENT EXCHANGE YEAR

Completed senior year and obtained high school diploma

AUGUST, 2020 DR. PAUL SCHMIDT · CURRICULUM VITAE

Other skills

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

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

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

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

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

Websites Eng: https://schmidtpaul.github.io/MMFAIR/, Ger: https://schmidtpaul.github.io/crashcouRse/

Teaching

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)

Kassel Univ., 2d

NUSSEL UTIIV., 2

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

Publications

- 1. Buntaran, H, HP Piepho, P Schmidt, J Rydén, M Halling, and J Forkman (2020). Cross-validation of stage-wise mixed-model analysis of Swedish variety trials with winter wheat and spring barley. *Crop Science*.
- 2. Kukowski, S, P Schmidt, HP Piepho, M Röhl, HK Hauffe, and T Streck (2020). Auswirkungen atmosphärischer Stickstoffeinträge auf magere Flachland-Mähwiesen in Baden-Württemberg. *Natur und Landschaft* **95**(2), 58–67.
- 3. Schmidt, P (2020). "Estimating heritability in plant breeding programs". PhD thesis. University of Hohenheim.
- 4. Schmidt, P, J Hartung, J Bennewitz, and HP Piepho (2019). Heritability in plant breeding on a genotype-difference basis. *Genetics* **212**(4), 991–1008.
- 5. Schmidt, P, J Hartung, J Rath, and HP Piepho (2019). Estimating Broad-Sense Heritability with Unbalanced Data from Agricultural Cultivar Trials. *Crop Science* **59**(2), 525–536.
- 6. Schmidt, P, J Möhring, R Koch, and HP Piepho (2018). More, Larger, Simpler: How Comparable Are On-Farm and On-Station Trials for Cultivar Evaluation? *Crop Science* **58**(4), 1508–1518.
- 7. Tulinská, J, K Adel-Patient, H Bernard, A Líšková, M Kuricová, S Ilavská, M Horváthová, A Kebis, E Rollerová, J Babincová, et al. (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.
- 8. Schmidt, K, J Schmidtke, P Schmidt, C Kohl, R Wilhelm, J Schiemann, H Van Der Voet, and P Steinberg (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.
- 9. Zeljenková, D, R Aláčová, J Ondrejková, K Ambrušová, M Bartušová, A Kebis, J Kovrižnych, E Rollerová, E Szabová, S Wimmerová, et al. (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.