THOMAS MAIERHOFER

STATISTICIAN

Analytical statistician well-versed in machine learning, regression models, natural language processing, data visualization, and big data manipulation.

EDUCATION

10/2012 - 09/2017	**University of Munich** MSc Statistics, GPA: 3.8 Thesis: Classification of Functional Data BSc Statistics with minor in Biology, GPA: 3.9 Thesis: Estimation of Entropies
10/2014 - 09/2015	**Cardiff University, Study Abroad as Erasmus Scholar** Mathematics, Operations Research and Statistics

PROFESSIONAL EXPERIENCE

10/2017 - present	**Senior Statistician, UCLA CRESST** Natural Language Processing: - development of novel vector representation for sentences and Python implementation - analysis of player strategies in an educational online game Student evaluation: - multilevel efficacy analysis of educational games - measurement of latent performance variables
04/2013 - 09/2017	**Statistical Consultant, University of Munich** Completed over 100 consulting projects for students, faculty, and external clients, for example: - Supervised team of 4 consultants in development of legal rent index for the city of Germering in 2014 & 2016 - Student enrollment prediction for the German state, Thüringen
04/2016 - 10/2016	**Intern, BMW Munich** - Modeling assembly line working conditions - Development of prototype for automatic detection of defective chassis plugs using ML, currently being tested in assembly line

TECHNOLOGY SUMMARY

Programming	R, Python, SPSS, Excel, Java, SQL, C++ (basic), flexMIRT, Git
Data Science	Regression (generalized, additive, mixed), Machine Learning (Random Forest, Gradient Boosting, Neural Networks), Item Response Theory, Bayesian Networks, Natural Language Processing, Data Visualization

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PUBLICATIONS

Maierhofer, T., & Bort, M. (2017). pollyvoter: Aggregate Components, Calculate Forecasts and Determine Errors for Election Results. R package version 0.0.0.9000. https://github.com/pollyvote/pollyvoter

Maierhofer, T., Pfisterer, F., Bender, A., Küchenhoff, H., Moerer, O., Burchardi, H., & Hartl, W. H. (2017). Cost analysis as a tool for assessing the efficacy of intensive care units, Medizinische Klinik-Intensivmedizin und Notfallmedizin, 1-7.

Maierhofer, T. (2017). classiFunc: Classification of Functional Data. R package version 0.1.0. https://CRAN.R-project.org/package=classiFunc

Däuble, A., **Maierhofer, T.**, Reese, S., Hartmann, K., & Kölle, P. (2017). Influence of dietary and environmental factors on the lifespan of domestic shorthair cats. Under review.

AWARDS

Institute Award for the Best Thesis 2017, University of Munich

Institute Award for the Best Statistical Project 2016, University of Munich

3rd place TEFdatachallenge 2016, Best Student Team, Telefonica Deutschland

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