

Dr. Gregor Kappler

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AREAS OF COMPETENCE

Data science · Programming · Psychology

AREAS OF SPECIALIZATION

Probability theory · Julia & R · Psychometrics

PROFESSIONAL SUMMARY

Innovator and Researcher with more than 15 years experience in psychometry, data-science and programming.

Visionary researcher and product developer with post-doctoral scientific and business experience.

Convincing communicator, motivating teacher and team leader who identifies growth opportunities and leverages potential in teammates and students with challenging empathy.

Experienced in all aspects of customer consulting, scientific research, public speaking, probabilistic modeling and software development.

Relentless problem-solver who believes not in failure but embraces feedback with a strong passion for finding the most effective and elegant path to succeed.

SKILLS

Strong command of functional and imperative programming for academic prototyping as well as for business product development.

Deep mathematical background in probability theory, logic, and automata.

Motivated team player with excellent public speaking ability and a psychologist's passion for oral, written, and interpersonal communication.

Initiator and problem-solver leveraging intuition and creativity with rigorous mathematical proofs and programming to materialize a product vision.

Lifelong learner staying on top of current and emerging research and tools.

Attentive listener who appreciates to incorporate qualified ideas and opinions into planning and development and who addresses doubts seriously.

HOBBIES AND INTERESTS

Outside of business hours I stay active by hiking. I appreciate reading and studying ancient mythological, religious and mundane texts for deepening my psychological intuition.

Education

- 2008 · 02 **Ph.D. (Dr. phil.) in Psychology (major), Mathematics (minor)**
(summa cum laude)
TOPIC: *Quantifying Quality: using a semantic computer analysis of a projective test to investigate the correlation of socio-emotional change and cognitive development in 3 to 5 year olds.*
Ludwig-Maximilians-Universität, Munich, Germany
ADVISORS: Norbert Bischof, Beate Sodian, Hans-Jürgen Schneider
- 2003 · 04 **M.Sc. (Dipl.-Psych.) in Psychology (major), Mathematics (minor)**
(highest honours)
Ludwig-Maximilians-Universität, Munich, Germany
ADVISORS: Norbert Bischof, Beate Sodian

Appointments held

1. ENTERPRISE STATISTICAL ANALYSES AND SOFTWARE DEVELOPMENT

- 2017-2021 Independently funded developer & researcher, Germany
Contracts, Research & Development
- 2014-2017 **Fuzzy Logix, Charlotte, US**
Principal Data Scientist Europe & Sales Engineer
- 2013-2014 **Meinkauf, Vienna, Austria**
Head Data Scientist
- 2008 **30digits, Munich, Germany**
Senior Technical Consultant
- 2007-2008 **CaptaWorks, Munich, Germany**
Solutions Architect
- 2005-2007 **Autonomy Services Ltd., Cambridge, UK** (acquired by HP)
Senior Technical Consultant
- 2000-2005 **Globalinx GmbH, Munich, Germany** (acquired by Autonomy Services Ltd.)
Senior Technical Consultant & Software Engineer
- 2000 **Scanline VFX, Munich, Germany**
Contractor

2. RESEARCH

- 2014 · 10 **Friedrich Schiller University of Jena, Germany**
– 2016 · 10 Postdoctoral Researcher
 Department of methodology and evaluation research
- 2008-2013 **University of Vienna, Austria**
 Postdoctoral Researcher
 Institute for Applied Psychology: Health, Development, Enhancement & Intervention
- 2008 **University of Cologne, Germany**
 Postdoctoral Researcher
 Faculty of Human Science
- 2008-2009 **Heinrich-Heine-University Dusseldorf, Germany**
 Postdoctoral Research Associate
- 2003-2007 **Ludwig-Maximilians-University, Munich, Germany**
 Research Assistant
 Research Fellow 2004
 Department of Psychology

3. TEACHING

- 2014 · 10 **University of Jena, Germany**
– 2017 · 10 Lecturer & Supervisor
 BACHELOR PROGRAMME IN PSYCHOLOGY
 Multivariate Statistics (Lecture)
 Supervised 4 Bachelor Theses
- 2009-2013 **University of Vienna, Austria**
 Lecturer & Supervisor
 PHD PROGRAMME IN PSYCHOLOGY
 Multilevel Growth Models using MPLUS (Workshop)
 Data Analysis and Visualisation with R (Workshop)
 Data Analysis using MPLUS (Workshop)
 Nonparametric Methods using R (Workshop)

 Kappler, G., & Bergsmann, E. M. (2012, March). *Growth-Models in MPLUS*.
 Invited Presentation for Young Researchers at the University of Vienna., Vienna,
 Austria
 Kappler, G. (2011a, December). *Nonparametric Methods*. Invited Presentation
 for Young Researchers at the University of Vienna., Vienna, Austria
 Lüftenegger, M., Kappler, G., & Bergsmann, E. M. (2011, May). *Introduction to*
 MPLUS. Invited Presentation for Young Researchers at the University of Vienna.,
 Vienna, Austria
 MASTERS PROGRAMME IN PSYCHOLOGY
 Open Data in Psychological Research (Course)

 DIPLOMA PROGRAMME IN PSYCHOLOGY
 Supervised 11 Diploma Theses

Physiological Stress Regulation in Children
Microanalytic Coding of Behavior
Statistical Methods using SPSS

2003-2007 **Ludwig-Maximilians-University, Munich, Germany**
Teaching Assistant
Diploma Programme in Psychology
Social and Cognitive Co-Development of Preschool Children

Enterprise Experience

- 2017-2020 Independently funded research and development, contractor, Augsburg, Germany.
CombinedParsers.jl julia development.
Product development of a scientific measurement and graph-data platform in next generation programming language Julia (backend) and Elm (frontend).
Research and development of fast measurement-search algorithms from category and probability theory.
- 2014-2017 Contractor for **Fuzzy Logix**, Charlotte, USA.
Head of product development of AdapteR, Fuzzy Logix R package to translate R syntax to in-database analytics with SQL.
Consulting regarding fast in-database analytics comprising various prediction, clustering and other statistical methods in real-world big-data appliances /(e.g. Survival analysis with Siemens Corporate Technology, Lasso regression with Roche).
- 2012-2014 Contractor for **Meinkauf**, Vienna, Austria.
Application of Bayesian Text Models to suggest similar offers and offers that match customers' interests.
- 2007-2008 Contractor for **30 digits**, Munich, Germany.
Integration of Semantic Intranet Search (Autonomy IDOL) for
TKK, Hamburg, Germany
Development of a java/jsp web application for vertical internet search for
Nexus MEDIA, London, UK
- 2005-2007 Senior Technical Consultant (Contractor) for **Autonomy Services Ltd.**, Munich, Germany.
Implementation of Online Recipe Search with java/jsp for
Martha Stewart, New York, USA.

Integration of Semantic Intranet Search (Autonomy IDOL) for
Nokia, Helsinki, Finland.
InvestNI, Belfast, UK.
Mastercom, Mailand, Italy.
MOL, Budapest, Hungary.

Development of a custom java SOAP-API for semantic personalization of mobile content based on Autonomy IDOL for Turkcell, Istanbul, Turkey.

2000-2005 Senior Technical Consultant & Software Engineer (Contractor) for **Globalinx GmbH**, Munich, Germany. (bought 2005 by Autonomy Services Ltd.)
Java-developer; integration of corporate semantic search using Autonomy IDOL.

2000 Contractor for **Scanline VFX**, Munich, Germany.
Development of an algorithm for tracking objects in image sequences for positioning of video effects and stabilizing camera movement. Implementation in C.

IT & programming skills

Continuous Development: *docker*

Statistical Computing languages: *Julia, R, MPlus*

Programming languages: *Elm, emacs lisp, java, C, C++*

Scripting languages: *shell script*

Query languages: *SQL*

Authoring: *emacs, orgmode, Eclipse*

Digital Typesetting: *L^AT_EX*

Revision control: *git, subversion, CVS*

Operating Systems: *OSX, Linux, Windows*

Languages

German (native speaker)

English (professional proficiency)

Networks

SCIENTIFIC AFFILIATIONS

2012-present European Association of Methodology (EAM)

1996-present Studienstiftung des deutschen Volkes [German National Academic Foundation]

SCIENTIFIC PROJECTS

2011-2017 *Moderne Psychometrie impliziter Motive [Modern psychometrics of implicit motives]*. Gregor Kappler with Schönbrodt, F., Hagemeyer, B., Busch, H., Dufner, M., Engeser, S., Gerstenberger, F., Hosoya, G., Koch, T., Kuhn, J.-T., & Nussbeck, F.

CONTRIBUTIONS: Using Bag-of-Words models for devising a psychometric measurement model for the analysis of texts.

- 2010-2013 *Differential Susceptibility and Preterm Stress*. Gregor Kappler with Ahnert, L, Fuiko, R., Witting, A., Keusch, B., et al
- CONTRIBUTIONS: Design and Planning: Effects of early kangarooing (body contact) and hospital stress on diurnal stress profiles at age 2 differentially for susceptibility gene 5HTTLPR.
Data management and development of software to aggregate the full record of all medical procedures into an overall stress score.
- 2008-2013 *Analyzing diurnal cortisol profiles with multilevel structural equation models*. Gregor Kappler with Ahnert, L, Lamb, M., Yang, P.J., Eckstein-Madry, T., Supper, B., Harwardt-Heinecke, E., et al
- CONTRIBUTIONS: Multilevel modeling of approx. 5000 diurnal profiles.
- 2008-2012 *Micro-Analytic Coding of Child Behavior at Child Care*. Gregor Kappler with Ahnert, L, Eckstein-Madry, T., Supper, B., et al
- CONTRIBUTIONS: Development of behavioral coding systems to code interactions of children with their peers, and their care-givers as well as their coping behavior. Training as well as task management involving approx. 50 students.
Development of software to re-encoding approx. 6000 videos into appropriate formats, cutting videos, and management of coding data.
- 1999-2007 *Motivational and cognitive co-development of preschoolers*. Gregor Kappler with Bischof-Köhler, D., Bischof, N., Zmyj, N., Stukenkemper, J.
- CONTRIBUTIONS: Development of software to transcribe and analyze videos of children playing freely with a projective test with a semantic expert system and neural networks.