Michael Geden

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Recent Work & Research Experience

Laboratory of Analytical Sciences 2017 - Present

- Developing a novel construct on anticipatory thinking in analysts
- Specifying multilevel SEM for new construct development

Applied Cognitive Psychology Lab 2014 - Present

- Managing a team of research assistants (4-7) in running studies, gathering data, and coding qualitative responses
- Identifying critical factors in mind wandering during reading using nonlinear multilevel modeling
- Assessing nonlinear relationships over time for mind wandering during driving
- Investigating the impact of sleep on attention and fatigue throughout the day using functional data analysis

Technical Skills

Statistical Methods
Multivariate analysis, dimension reduction, structural equation modeling, time series, mixed models, nonlinear models

Software and Programming Languages
R, Python, SAS, SQL [< 1 year], LaTeX [< 1 year], Excel, Visualization(Tableau, ggplot), Qualtrics

Education

Doctoral Candidate in Human Factors and Applied Cognition 2014 - Present
North Carolina State University, Raleigh, NC

Masters in Statistics 2017 - Present
North Carolina State University, Raleigh, NC

Bachelor of Science in Psychology 2009 - 2013
University of Florida, Gainesville, FL

Selected Coursework

Applied Longitudinal and Multivariate Statistics, Applied Time Series, Applied Bayes, Statistical Inferences, Statistical Programming, Data Mining with SAS

Select Publications

Geden, M., Staicu, A., Feng, J. (2017). A mixed-effects modeling approach to studying the impact of mind wandering on selective attention. *Joint Statistical Meetings.*

Geden, M., Staicu, A., Feng, J. (2017). *Reduced Target Facilitation and Increased Distractor Suppression during Mind Wandering*. Manuscript submitted for publication.

Geden, M., Staicu, A., Feng, J. (2017). The Impact of Perceptual Load and Time on Mind Wandering in Driving. *Transportation Research Part F: Traffic Psychology and Behaviour.* Manuscript accepted for publication.

HeeSun, C., **Geden**, M., Feng, J. (2017). Mind Wandering in Relation to the Concurrent Task: Modality of the Concurrent Task Impacts How the Mind Wanders. *PLOS ONE.* Manuscript accepted for publication.

Geden, M., & Feng, J. (2015). Simulated Driving Environment Impacts Mind Wandering. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 59(1), 776-780.

Professional Affiliations

American Statistical Association • Human Factors and Ergonomics Society