

MICHAEL GEDEN

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Recent Work Experience

Laboratory of Analytical Sciences **NC State: Interdisciplinary**

Jan. 2017 - Present

- ❖ Developing a novel construct and measurement for anticipatory thinking.
- ❖ Created survey with convergent and divergent validity constructs to test hypothesised model using structural equation modeling (SEM).

Applied Cognitive Psychology Lab **NC State: Department of Psychology**

Aug. 2014 - Present

- ❖ Managing a team of research assistants (4-7) in running studies, gathering data, and coding qualitative responses.
- ❖ Identifying information processing and encoding failures during reading while mind wandering.
- ❖ Assessing impact of mind wandering on driving using autoregressive, additive, and logistic mixed effects models
- ❖ Predicting mind wandering during driving using machine learning (mixed models, random forests, SVM).
- ❖ Investigating the impact of sleep on daily fluctuations of attention and fatigue.

Canine Orthopedic Brace Design **NC State: Interdisciplinary**

Jan. 2015 - April 2015

- ❖ Designed canine brace with multi-disciplinary team
- ❖ Conducted user interviews and surveys on design

SAS Internship

Jan. 2015 - Dec. 2015

- ❖ Heuristically evaluated technical documentation usability.
- ❖ Redesigned information architecture.
- ❖ Assessed usability of designs using A/B testing.

Pentair

Aug. 2014 - Dec. 2014

- ❖ Evaluated usability of aquaponics application.
- ❖ Design was tested through A/B usability assessments.

Technical Skills

Machine Learning: classification, regression, clustering
Statistical Methods: Regression, structural equation modeling, time series, bayesian
Software and Programming Languages: R, Python, SAS, LaTeX, Excel, Qualtrics

Education

Doctoral Candidate in Human Factors and Applied Cognition
Expected Graduation: December 2018
North Carolina State University, Raleigh, NC

2014 - 2018
(Expected)

Masters in Statistics
North Carolina State University, Raleigh, NC

2017 - 2018
(Expected)

Bachelor of Science in Psychology
University of Florida, Gainesville, FL

2009 - 2013

Publications

Travis, J., Kaszycki, A., **Geden, M.**, & Bundle, J. (2018). Some

Stress is Good Stress: The challenge-hindrane framework, academic self-efficacy, and academic outcomes.
Contemporary Educational Psychology (submitted, in review).

Pearson, C., **Geden**, M., Mayhorn, C. (2018). Who's the Real Expert Here? Pedigree's Unique Bias on Trust Between Human and Automated Advisers. Human Factors. *Human Factors (submitted, in review).*

Geden, M., Staicu, A., Feng, J. (2018). Reduced Target Facilitation and Increased Distractor Suppression during Mind Wandering. *Experimental Psychology (accepted/in press).*

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 (accepted/in press).*

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*.

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.

Presentations	Joint Statistical Meetings: Baltimore <i>A mixed-effects modeling approach to studying the impact of mind wandering on selective attention</i>	2017
	International Conference on Applied Human Factors and Ergonomics: Orlando <i>Analyzing the usability of a dashboard display for a monitoring system on a smartphone</i>	2017
	Human Factors and Ergonomics Society Conference: LA <i>Perceptual Load affects Mind Wandering during Simulated Driving</i>	2015
	North Carolina Cognition Conference: Elon <i>Perceptual Load affects Mind Wandering during Simulated Driving</i>	2015
Positions	Graduate Peer Mentorship Program Member	2017-2018
	NC State University Standing Committee on Library Member	2016-2017
	Human Factors and Ergonomics Society: Golden Student Chapter Vice-President	2015-2016
Professional Affiliations	American Statistical Association • User Experience Professionals Association • Human Factors and Ergonomics Society	

**Selected
Graduate
Coursework**

Statistics

Applied Bayesian Analysis, Statistical Programming,
Data Mining with SAS, Fundamentals of Inference I/II,
Applied Multivariate and Longitudinal Data Analysis,
Applied Time Series, Quantitative Methods in
Psychology I/II

Human Factors and Applied Cognition

Visual Perception, Cognitive Processes,
Psychometrics, Human Attention, Human Factors
Systems Design, Physiological Psychology, Action
Research, Ergonomic Performance Assessment

Volunteering

Alachua County Crisis Center
Phone Counselor

2013-2014

References

Dr. Jing Feng, Assistant Professor
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Dr. Anne McLaughlin, Associate Professor
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Dr. Ana-Maria Staicu, Assistant Professor
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