

MICHAEL A. GEDEN

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Recent Work Experience

Laboratory of Analytical Sciences

Jan. 2017 - Present

NC State: Interdisciplinary

- ❖ 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

Aug. 2014 - Present

NC State: Department of Psychology

- ❖ 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

2015

NC State: Interdisciplinary

- ❖ 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

Statistical Methods

Structural equation modeling, bayesian methods, mixed models, ARIMA models, machine learning (naive bayes, SVM, bagged/boosted decision trees)

Software and Programming Languages

Qualtrics, R, Python, SAS, LaTeX [< 1 year], Visualization(ggplot), Office suite (excel, word, powerpoint)

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

Publications

- Travis, J., Kaszycki, A., **Geden**, M., & Bundle, J. (2018). Some Stress is Good Stress: The challenge-hindrances 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 (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** 2017
A mixed-effects modeling approach to studying the impact of mind wandering on selective attention
- International Conference on Applied Human Factors and Ergonomics: Orlando** 2017
Analyzing the usability of a dashboard display for a monitoring system on a smartphone
- Human Factors and Ergonomics Society Conference: LA** 2015
Perceptual Load affects Mind Wandering during Simulated Driving
- North Carolina Cognition Conference: Elon** 2015
Perceptual Load affects Mind Wandering during Simulated Driving

Positions

- Graduate Peer Mentorship Program** 2017-2018
Member
- NC State University Standing Committee on Library** 2016-2017
Member
- Human Factors and Ergonomics Society: Golden Student Chapter** 2015-2016
Vice-President

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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