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An **online version** of this CV can be viewed at: https://jscofield.org/

Education

University of Missouri Columbia, MO

Ph.D. Candidate - Cognition & Neuroscience

Fall 17 - Spring 20

• Advisors: Jeffrey Johnson, Ph.D. - David Geary, Ph.D.

Missouri State University Springfield, MO

M.S. - EXPERIMENTAL PSYCHOLOGY

Fall 15 - Spring 17

· Advisor: Bogdan Kostic, Ph.D. **Missouri State University**

Springfield, MO

GRADUATE CERTIFICATE - STATISTICS AND RESEARCH DESIGN

Fall 15 - Spring 17

• A supplementary certificate in tandem with a Master of Science degree

• targeting advanced statistical techniques and applied research areas. Advisor: Erin Buchanan, Ph.D.

Truman State University Kirksville, MO

B.S. - Psychology Fall 13 - Spring 15

· Advisor: Professor Salvatore Costa

Teaching.

A copy of my teaching philosophy is accessible online at: https://jscofield.org/

PSYCH2820: Minds, Brains, & Machines

University of Missouri

INSTRUCTOR

Fall 20

· cognitive neuroscience and its relation to the developing field of artificial intelligence

PSYCH3010: Research Methods

University of Missouri

Summer 19

• Online instruction following fundamentals of research in psychology

PSYCH3010: Research Methods

University of Missouri

GUEST LECTURE

Summer 18

Fall 15 - Spring 17

- Overviews of neuroscientific tools in neuroscience
- measurement, reliablility, validity (EEG, fMRI, TMS, MEG)

PSY302: Experimental Psychology

Missouri State University

INSTRUCTOR

- Laboratory course with a strong lecture component.
- Demonstrations and discussions of classic experiments
- Oversaw research projects (from data collection to manuscript writeups)

PSYCH3010: Research Methods

University of Missouri

TEACHER'S ASSISTANT

Spring 18 - Fall 19

Fall 17

· distribution of course content and grading

PSYCH2410: Developmental Psychology University of Missouri

TEACHER'S ASSISTANT

· distribution of course content and grading

PSYCH3420: Cognitive Development in Childhood

University of Missouri

TEACHER'S ASSISTANT

Fall 17

· distribution of course content and grading

Publications

Geary, D. C., Scofield, J. E., Hoard, M. K., & Nugent, L. (Revise & Resubmit). Boys' advantage on the fractions number line is mediated by visuospatial attention: Evidence for a parietal-spatial contribution to number line learning.

Scofield, J. E., & Johnson, J. D. (Revise & Resubmit). The diminishing precision of memory for time.

Geary, D. C., Scofield, J. E., Hoard, M. K., & Nugent, L. (Revise & Resubmit). Cognitive, attitudinal, and classroom

contributions to variation in the pattern of adolescents' mathematical competencies.

2020 -----

Hone, L. S. E., **Scofield, J. E.**, Bartholow, B. D., & Geary, D. C. (*In Press*). Binge drinking is associated with sex-specific cognitive deficits. *Evolutionary Psychology*. preprint: https://psyarxiv.com/m3xa8

Geary, D. C., Hoard, M. K., Nugent, L., & **Scofield, J. E.** (2020). In-class attention, spatial ability, and mathematics anxiety predict across-grade gains in adolescents' mathematics achievement. *Journal of Educational Psychology*. doi:10.1037/edu0000487

Scofield, J. E., Price, M. H., Flores, A., Merkle, E. C., & Johnson, J. D. (2020). Repetition attenuates the influence of recency on recognition memory: Behavioral and electrophysiological evidence. *Psychophysiology*. doi:10.1111/PSYP.13601. https://osf.io/572jt/

2019 -----

Hone, L. S. E., **Scofield, J. E.**, Bartholow, B. D., & Geary, D. C. (2019). Tutorial on designing, implementing, and analyzing a degraded image paradigm: A facial expression-decoding task example. *The Quantitative Methods for Psychology*, 15(3), 200-213. doi: 10.20982/tqmp.15.3.p200. https://osf.io/ntmah/

Cowan, N., Adams, E. J., Bhangal, S., Corcoran, M., Decker, R., Dockter, C. E., ... **Scofield, J. E.**, ... & Watts, A. L. (2019). Foundations of arrogance: A broad survey and framework for research. *Review of General Psychology*, 23(4), 425-443. doi:10.1177/1089268019877138.

Chu, F. W., vanMarle, K., Hoard, M. K., Nugent, L., **Scofield, J. E.**, & Geary, D. C. (2019). Preschool deficits in cardinal knowledge and executive function contribute to longer-term mathematical learning disabilities. *Journal of Experimental Child Psychology*, 188, 104668. doi: 10.1016/j.jecp.2019.104668. https://osf.io/phtxm/

Scofield, J. E., Johnson, J. D., Wood, P. K., & Geary, D. C. (2019). Latent resting-state network dynamics in boys and girls with attention-deficit/hyperactive disorder. *PLOS ONE*, *14*(6), e0128891. doi:10.1371/journal.pone. 0218891. https://osf.io/xqewf/

Geary, D. C., Hoard, M. K., Nugent, L., Chu, F., **Scofield, J. E.**, & Hibbard, D. F. (2019). Sex differences in mathematics anxiety and attitudes: Concurrent and longitudinal relations to mathematical competence. *Journal of Educational Psychology*. doi:10.1037/edu0000355.

Scofield, J. E., Kostic, B., & Buchanan, E. M. (2019). How the presence of others affects desirability judgments in heterosexual and homosexual participants. *Archives of Sexual Behavior*. doi:10.1007/s10508-019-01516-w. https://osf.io/ej5kh/

Valentine, K. D., Buchanan, E. M., **Scofield, J. E.**, & Beauchamp, M. T. (2019). Beyond p-values: Utilizing multiple estimates to evaluate evidence. *Behaviormetrika*. doi:10.1007/s41237-019-00078-4.

Buchanan E., Gillenwaters A., **Scofield J. E.**, Valentine K. (2019). MOTE: Measure of the Effect: Package to assist in effect size calculations and their confidence intervals. R package version 1.0.1, https://cran.r-project.org/web/packages/MOTE/index.html

2018 -----

Buchanan, E. M., & **Scofield, J. E.** (2018). Methods to detect low quality data and its implication for psychological research. *Behavior Research Methods*, 50(6), 2586-2596. doi:10.3758/s13428-018-1035-6.

Scofield, J. E., Buchanan, E. M., & Kostic, B. (2018). A meta-analysis of the survival processing advantage in memory. *Psychonomic Bulletin and Review*, 25(3), 997-1012. doi:10.3758/s13423-017-1346-0.

2017 ————————————

Derringer, C. J., **Scofield, J. E.**, & Kostic, B. (2017). Investigations of a reproductive processing advantage in memory. *Memory and Cognition*, 45(6), 983-1001. doi: 10.3758/s13421-017-0709-0.

Pre-prints/Replications —————————

Sumner, C., **Scofield, J. E.**, Buchanan, E. M., Evans, M., & Shearing, M. (2019). The role of personality, authoritarianism and cognition in the United Kingdom's 2016 referendum on European union membership. https://osf.io/n5r67/

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- Kostic, B., & **Scofield, J. E.** (2019). Sex differences across sexual orientation and sexual identity. https://osf.io/8tnd4/
- Buchanan, E. M., **Scofield, J. E.**, & Nunley, N. (2018). The N400's 3 As: Association, automaticity, attenuation (and some semantics too). https://osf.io/6w2se/
- Buchanan, E. M., & **Scofield, J. E.** (2018). Bulletproof bias? Considering the type of data in common proportion of variance effect sizes. https://osf.io/cs4vy/
- **Scofield, J. E.** & Kostic, B. (2016, April 05). Eye movements and handedness in memory. Retrieved from http://www.PsychFileDrawer.org/replication.php?attempt=MjQ2
- **Scofield, J. E.** & Kostic, B. (2016, January 29). Sex and sexual orientation differences in mating. Retrieved from http://www.psychfiledrawer.org/replication.php?attempt=MjM4

Presentations

- Clocksin, H. E., **Scofield, J. E.**, Beversdorf, D. Q., Riecken, C., Christ, S. E., & Johnson, J. D. (2020, May). *Resting-state functional connectivity differences in memory networks of autism spectrum disorder*. Poster presented at the Cognitive Neuroscience Society Annual Meeting, Virtual (Boston, MA).
- **Scofield, J. E.**, & Johnson, J. D. (2020, May). *The diminishing precision of temporal information in episodic memory retrieval*. Poster presented at the Cognitive Neuroscience Society Annual Meeting, Virtual (Boston, MA).
- **Scofield, J. E.**, & Johnson, J. D. (2019, November). *The precision of retrieving temporal information associated with episodic memories*. Poster presented at the Psychonomic Society Annual Meeting, Montreal, Canada.
- Hone, L. S. E., **Scofield, J. E.**, Bartholow, B. D., & Geary, D. C. (2019, June). *Development of a timed facial expression decoding task*. Talk presented at teh NorthEastern Evolutionary Psychology Society, Boston, MA.
- Shenk, M., McAllister, L., **Scofield, J. E.**, Zoeller, M., & Jaeggi, A. (2019 June). *Are reproductive behaviors sensitive to priming? A bayesian multi-level meta-analysis*. Talk presented at the Human Behavior & Evolution Society Annual Meeting, Boston, MA.
- **Scofield, J. E.**, Price, M. H., Flores, A., Merkle, E. C., & Johnson, J. D. (2019, March). *Behavioral and electrophysiological correlates of the memory search process during continuous recognition*. Poster presented at the Cognitive Neuroscience Society, San Francisco, CA.
- **Scofield, J. E.**, Price, M. H., Flores, A., Merkle, E.C., & Johnson, J.D. (2018, November). *Scanning through memory along a compressed timeline: A continuous recognition task with multiple repetitions*. Poster presented at the Psychonomic Society Annual Meeting, New Orleans, LA.
- **Scofield, J. E.** & Geary, D. C. (2018, August). *Sex differences in brain network dynamics across time*. Oral talk presented at the Heterodox Psychology Workshop, Orange, CA.
- **Scofield, J. E.** (2018, May). *The contribution of handedness to hippocampal functional connectivity.* Data blitz presented at the Show Me State Conference on Cognition, St. Louis, MO.
- **Scofield, J. E.**, & Johnson, Jeffrey D. (2018, March). *Resting-state hippocampal functional connectivity depends on handedness*. Poster presented at the Cognitive Neuroscience Society, Boston, MA.
- **Scofield, J. E.**, & Buchanan, E. M. (2017, November). *Survey automation detection methods and its implications on psychological research*. Oral talk presented at the Society for Computers in Psychology Conference, Vancouver, BC, Canada.
- Buchanan, E. M., **Scofield, J. E.**, & Marshall, C. Z. (2017, November). *Distributions and Sampling Variance for Five Effect Size Measures of Variance Overlap*. Poster presented at the Psychonomic Society Annual Meeting, Vancouver, BC, Canada.
- **Scofield, J. E.**, Buchanan, E. M., & Kostic, B. (2016, November). *A meta-analysis of the survival processing advantage in memory*. Poster presented at the Psychonomic Society Annual Meeting, Boston, MA.
- Decker, R., **Scofield, J. E.**, Wekesser, M., Myers, A., & Palmer, T. (2016, May). *Flash suppression eliminates lip-movement influence in syllable identification*. Poster presented at the Midwestern Psychological Association Conference, Chicago, IL.

Scofield, J. E. (2016, April). *Sex differences in gender, orientation, and identity.* Poster presented at the Missouri State University Interdisciplinary Forum, Springfield, MO.

Scofield, J. E., & Kostic, B. (2016, April). *Sex differences in heterosexual, homosexual, and bisexual participants*. Oral Talk presented at the Southwestern Psychological Association Conference, Dallas, TX.

Research Experience ____

Memory and Neuroimaging Lab

Columbia, MO

University of Missouri

Fall 17 - Current

- co-investigator and research assistant to Dr. Jeffrey Johnson.
- Investigates Episodic Memory using fMRI & EEG.
- Incorporating both univariate (GLM) and multivariate (MVPA; machine learning) approaches

Evolution and Cognitive Development Lab

Columbia, MO

University of Missouri

Fall 17 - Current

- co-investigator and research assistant to Dr. David Geary
- · Incorporates sexuals selection theory to investigate human cognitive sex differences

DOOM Research Lab

Springfield, MO

MISSOURI STATE UNIVERSITY

Spring 16 - Fall 18

- Research assistant to Dr. Erin Buchanan.
- · Statistical techniques including simulations, effect sizes, and traditional parametric vs. Bayesian techniques

Cognitive Research Lab

Springfield, MO

MISSOURI STATE UNIVERSITY

Fall 15 - Spring 17

- co-investigator and assistant to Dr. Bogdan Kostic
- Investigated common cognitive phenomena as well as human sex differences

Cognition Lab

Kirksville, MO

TRUMAN STATE UNIVERSITY

Fall 13 - Spring 15

- research assistant to Dr. Terry Palmer
- investigating the role of consciousness in multisensory integration

Psychological Testing Lab

Kirksville, MO

TRUMAN STATE UNIVERSITY

Fall 14 - Spring 15

• research assistant to professor Salvatore Costa

Statistical Analysis Skills _

ANALYSES

- Machine learning
 - Deep learning: CNN, RNN/LSTM, GAN
 - MVPA: SVM, Ridge, Lasso, Naive Bayes, Neural Networks/MLP
- Bayesian Statistics
 - regression, model-building/comparison, bayes factors
- Multilevel/mixed effects modeling
- Structural Equation Modeling
 - EFA, single/multi-group CFA, path, latent growth, IRT
- meta-analytic techniques
 - traditional RE/FE, bayesian multilevel estimation, p-value distribution analysis
- GLM
 - simultaneous/hierarchical/mediation/moderation/logistic regression, AN/ANC/MAN/MANC-OVA

LANGUAGES AND SOFTWARE FOR STATISTICAL ANALYSIS

- · Statistical Analyses: Python, R, MATLAB, JASP
- · Neuroimaging processing: Python, FSL, AFNI, ANTs
- Software package development: MOTE (https://cran.r-project.org/web/packages/MOTE/index.html)

LANGUAGES AND SOFTWARE FOR STIMULUS PRESENTATION

• Python (Psychopy), MATLAB (Cogent)

Relevant Work Experience _____

Research Assistant Columbia, MO

University of Missouri Spring 17 - Current

• Research Assistant under Dr. David Geary.

- data collection, individual cognitive testing in Columbia Public School System
- data analysis, mauscript preparation

Teaching Assistantship Columbia, MO

Fall 17 - Current

Springfield, MO

Fall 16 - Spring 17

Springfield, MO

Fall 15 - Spring 16

University of Missouri
Teaching assistantship including grading, course content distribution, and course management

Data Science Intern

SKYFACTOR Spring 17 - Summer 17

• data screening, cleaning, analysis, presentations for educational testing and research

• model building and data visualization

Teaching Assistantship Springfield, MO

MISSOURI STATE UNIVERSITY

teaching and management of Experimental Psychology lab courses

Graduate Assistantship

MISSOURI STATE UNIVERSITY

• management of online courses, course content management and distribution

· assisted in survey construction, data analysis, and literature reviews

Service_

Web & Scholary Communications Committee (08/01/2018 - Present)

Ad-hoc Reviewer: Memory; Brain & Behavior; Journal of Integrative Neuroscience; Cognition and Emotion; Psychiatry Research; Journal of Child Psychology & Psychiatry; Evolutionary Psychological Science; The Social Sciences Journal

Organizations / Associations

Psychonomic Society

Cognitive Neuroscience Society

American Psychological Assoication

Southwestern Psychological Association

Honors / Awards

Research Travel Award, \$900 cumulative, University of Missouri

Graduate College Research Grant, \$300, Missouri State University

Cum Laude, Missouri State University / Truman State University

President's List, Missouri State University / Truman State University / Benedictine College

Varsity Collegiate Baseball, Truman State University, Benedictine College

GLVC Academic all-conference team 2013-2014 & 2014-2015, Truman State University

BCIA certification of HRV biofeedback, Truman State University