John E. Scofield, M.S.

Columbia, Missouri

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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/`

PSYCH3010: Research Methods	*University of Missouri*
INSTRUCTOR	*Summer 19*

- Online instruction following fundamentals of research in psychology

PSYCH3010: Research Methods	*University of Missouri*
GUEST LECTURE	*Summer 18*

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

PSY302: Experimental Psychology	*Missouri State University*
INSTRUCTOR	*Fall 15 - Spring 17*

- 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*

- distribution of course content and grading

PSYCH2410: Developmental Psychology	*University of Missouri*
TEACHER'S ASSISTANT	*Fall 17*

- 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

SUBMITTED —————————–

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

Geary, D. C., Hoard, M. K., Nugent, L., & **Scofield, J. E.** (*Submitted*). In-class attentive behavior and spatial ability predict across-grade gains in adolescents' mathematics achievement.

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

Geary, D. C., **Scofield, J. E.**, Hoard, M. K., & Nugent, L. (*Submitted*). Cognitive, attitudinal, and classroom contributions to variation in the pattern of adolescents' mathematical competencies.

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`.

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/`

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

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.

Scofield, J. E., Sloan, J., Lin, X., Berry, E., Gambino, D., & Roberts, M. (2015, May). *Effects of hypnotic and progressive relaxation on sleep quality*. Poster presented at the Midwestern Psychological Association Conference, Chicago, IL.

Scofield, J. E., & Roland, C. (2015, May). *Effects of visual bias on reaching performance with an unseen hand*. Poster presented at the Truman State University Psychological Symposium, Kirksville, MO.

Software

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`

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

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*

UNIVERSITY OF MISSOURI *Fall 17 - Current*

- Teaching assistantship including grading, course content distribution, and course management

Data Science Intern *Springfield, MO*

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 *Fall 16 - Spring 17*

- teaching and management of Experimental Psychology lab courses

Graduate Assistantship *Springfield, MO*

MISSOURI STATE UNIVERSITY *Fall 15 - Spring 16*

- 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: *Brain & Behavior*, *Psychiatry Review*, *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