

Curriculum Vitae

David M. Cole

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Interdisciplinary Program in Neuroscience
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EDUCATION

- 2021 Utah State University
Ph.D. Candidate in Neuroscience
Dissertation Adviser: David A. E. Bolton
- 2015 St. Cloud State University
M.S. in Applied Psychology: Behavior Analysis
Thesis Adviser: Benjamin N. Witts
- 2007 Washington University in St. Louis
B.A. in English Literature

AWARDS AND HONORS

Extramural

- 2019 Finalist, Psychological Science Video Festival, \$1000, American Psychological Association
2017 Student Video Award, \$1000, Noba Psychology/The Diener Education Fund/Psi Chi
2017 Distinguished Scholar, Cambridge Center for Behavior Studies

Intramural

- 2018 Graduate Student Travel Award, \$800, Office of Research and Graduate Studies/Department of Kinesiology and Health Science, Utah State University
2017 Graduate Student Research Award, \$2953, College of Education & Human Services/Department of Psychology, Utah State University
2017 Graduate Student Travel Award, \$500, Office of Research and Graduate Studies/Department of Psychology, Utah State University

PUBLICATIONS AND MANUSCRIPTS

Peer-Reviewed Articles

Bolton, D. A. E., **Cole, D. M.**, Butler, B., Mansour, M., Schwartz, S., McDannald, D. W., and Rydalch, G. (2019). Motor preparation for compensatory reach-to-grasp responses when viewing a wall-mounted safety handle. *Cortex*, 117, 135–146. <https://doi.org/10.1016/j.cortex.2019.03.001>

Bolton, D. A. E., **Cole, D. M.**, Butler, B., Mansour, M., Rydalch, G., McDannald, D. W., and Schwartz, S. (2019, February 5). *Motor preparation for compensatory reach-to-grasp responses when viewing a wall-mounted safety handle* [Data set]. Retrieved from <https://osf.io/9z3nw/>

Goode, C., **Cole, D. M.**, & Bolton, D. A. E. (2019). Staying upright by shutting down? Evidence for global suppression of the motor system when recovering balance. *Gait & Posture*, *70*, 260–263. <https://doi.org/10.1016/j.gaitpost.2019.03.018>

Cole, D. M., & Witts, B. N. (2015). Formative graphing with a Microsoft Excel 2013 template. *Behavior Analysis: Research and Practice*, *15*(3-4), 171–186. <https://doi.org/10.1037/bar0000021>

Cole, D. M. (2017). Formative Grapher (Version 1.11) [Computer software]. <https://dx.doi.org/10.13140/RG.2.2.18860.67208>

Manuscripts under Review

Cole, D. M., Rung, J. M., & Madden, G. J. (2019). Assessing susceptibility of a temporal discounting task to faking.

Rung, J. M., **Cole, D. M.**, & Madden, G. (2018, April 30). *Faking discounting rates* [Data set]. Retrieved from <https://osf.io/mnsxh>

Manuscripts in Preparation

Cole, D. M., Mansour, M., Ruddy, K. L., & Bolton, D. A. E. (2019). A neural for stopping rapid leg reactions.

Cole, D. M., Hancock, A., & Bolton, D. A. E. (2019). fNIRS and the role of the PFC in human balance control.

Cole, D. M. (2019). When to reverse: Evaluating experts in single-subject research against Bayesian probabilities.

Cole, D. M. (2019). Permanence of temporal-discounting rates: A meta-analysis.

Cole, D. M., & Warren, C. (2019). The value of EEG noise for ICA.

Smith, B., & **Cole, D. M.** (2019). EEG and mindfulness.

CONFERENCE PRESENTATIONS

Papers

Cole, D. M., Butler, B., Mansour, M., Schwartz, S., Bell, H., McDannald, D. W., Rydalch, G., and Bolton, D. A. E. (2019). *An invisible hand: Automatic preparation for arresting a fall when viewing a handrail*. Paper to be presented at the World Congress of the International Society of Posture & Gait Research, Edinburgh, United Kingdom.

Cole, D. M., Goode, C., & Bolton, D. A. E. (2019). *Response inhibition during reactive balance*. Paper presented at the 3rd Biennial International Convention of Psychological Science, Paris, France.

Cole, D. M., Goode, C., & Bolton, D. A. E. (2018). *Staying upright by shutting down? Evidence for global suppression of the motor system when recovering balance*. Paper presented at the Fall Colloquium of the Disabilities Disciplines, Utah State University, Logan, UT.

Cole, D. M. (2018). *Adding genetically modified mice to the armamentarium of behavior analysis*. Paper presented at the 44th Annual Convention of the Association for Behavior Analysis International, San Diego, CA.

Cole, D. M., Rung, J. M., & Madden, G. J. (2017). *Can temporal discounting be faked?* Paper presented at the 43rd Annual Convention of the Association for Behavior Analysis International, Denver, CO.

Posters

Cole, D. M. (2017). *Reward type predicts temporal discounting in rats: A pilot study*. Paper presented at the Annual Conference of the Utah Association for Behavior Analysis, Salt Lake, UT.
<https://observechange.org>

PROFESSIONAL SERVICE

Chairmanships

- 2019 *Dissociating neural mechanisms of choice: Recent developments*. Symposium chaired at the 3rd Biennial International Convention of Psychological Science, Paris, France.
- 2018 *Alternative model organisms: Alcoholic bees, mutant mice, robotic zebrafish, and T-mazing octopi*. Symposium chaired at the 44th Annual Convention of the Association for Behavior Analysis International, San Diego, CA.

Editorial

- 2019 Judge, Student Research Symposium, Utah State University, Logan, UT
- 2019 Reviewer, RISE Research Award, Association for Psychological Science
- 2019 Reviewer, bioRxiv (Journal of Neuroscience Reviewer Mentoring Program)
Mentor: Hyojung Seo, Yale University
- 2018 Reviewer, Student Research Award, Association for Psychological Science
- 2016 Reviewer, Student Grant Competition, Association for Psychological Science

Research

- 2019 Research Trainee, Trinity College, Dublin, Ireland
Sponsor: Robert Whelan
- 2017-2020 Research Assistant, Utah State University, Logan, UT

Teaching

- 2018–2019 Instructor, Utah State University, Logan, UT
PEP 4400: Evaluation in Physical Education (Research Methods and Statistics)
- 2017–2018 Instructor, Utah State University, Logan, UT
PSY 3460: Neuroscience I (Laboratory Course)
- 2016–2017 Instructor, Utah State University, Logan, UT
PSY 1400/1410: Analysis of Behavior: Basic Principles (Laboratory Course)
- 2016 Guest Speaker, Utah State University, Logan, UT
PSY 2010: Orientation to Psychology as a Career and Profession

Mentorships

- 2019 Jessica Harrison, Undergraduate Teaching Fellow, Utah State University

- 2018–2019 Mahmoud Mansour, Undergraduate Research and Creative Opportunities Grant, Utah State University
- 2018 Jennifer Henry, PSY 4950: Undergraduate Apprenticeship, Utah State University
- 2018 Ericka Twinting, PSY 4950: Undergraduate Apprenticeship, Utah State University
- 2016 Jenny Christensen, PSY 4950: Undergraduate Apprenticeship, Utah State University
- 2016 Amand Hardiman, PSY 4950: Undergraduate Apprenticeship, Utah State University

Organizations and Committees

- 2019–2022 Treasurer, Four Corners Association for Behavior Analysis
- 2017– Campus Representative, Association for Psychological Science
- 2017– Webmaster, Four Corners Association for Behavior Analysis
- 2014–2016 Student Director, Four Corners Association for Behavior Analysis
- 2012– Interviewer, Washington University Alumni & Parents Admission Program

Industry

- 2012–2015 Clinical Director, ACI Learning Center, Colorado Springs, CO
- 2011–2012 Consultant, Behavior Management Consultants, Jacksonville, FL
- 2008–2010 Clinical Supervisor, Wellspring Healthcare, Los Angeles, CA

SKILLS AND CERTIFICATIONS

Professional Certifications

- 2015– Board Certified Behavior Analyst, 15-2220-025875
- 2010–2015 Board Certified Assistant Behavior Analyst, 0-10-3864

Laboratory Training

Humans: Electroencephalography (EEG); Electromyography (EMG); Functional Near-Infrared Spectroscopy (fNIRS); Transcranial Magnetic Stimulation (TMS); Participant Markets (e.g., Amazon Mechanical Turk)

Rodents: Colony Management and Breeding; Genotyping with Polymerase Chain Reaction and Electrophoresis; Brain Stereotaxic Injection and Intravenous Catheter Implantation; Classical and Operant Conditioning; Transcardial Perfusion and Brain Sectioning; Confocal Microscopy and Neuronal Tract Tracing

Computer Training

Programming Languages: MATLAB; Python; R; Visual Basic for Applications; HTML5 and CSS; MEDState Notation (Pascal frontend)

Secondary Languages

French: Level B2

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Association for Psychological Science; Four Corners Association for Behavior Analysis; International Society of Posture & Gait Research; Psi Chi; Society for Neuroscience; Society for Psychophysiological Research

REFERENCES

David A. E. Bolton, PhD, Assistant Professor, Department of Kinesiology and Health Science, Interdisciplinary Program for Neuroscience, Utah State University, 7000 Old Main Hill, Logan, UT 84322. Tel: (435) 554-6788.

Christopher J. Dakin, PhD, Assistant Professor, Department of Kinesiology and Health Science, Interdisciplinary Program for Neuroscience, Utah State University, 7000 Old Main Hill, Logan, UT 84322. Tel: (435) 797-7324.

Benjamin N. Witts, PhD, Associate Professor, Department of Community Psychology, Counseling and Family Therapy, St. Cloud State University, 720 4th Avenue South, St. Cloud, MN 56301. Tel: (320) 308-2233.