

# Stanford


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## Nicholas Alvaro Coles

Research Scientist

Center for the Study of Language and Information (CSLI)

 Curriculum Vitae available Online

### Bio

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#### BIO

I am a Research Scientist at Stanford University and the co-Director of the Stanford Big Team Science Lab. I conduct research on emotions, big team science, and AI.

In affective science, I seek to understand the social, cognitive, and physiological processes that underlie emotion. Much of my research here has focused on examining the extent to which sensorimotor feedback from the peripheral nervous system (e.g., changes in heart rate and muscle tension) impact the conscious experience of emotion.

In big team science, I seek to build infrastructure that allows researchers to collaboratively tackle ultra-complex questions in science. In this domain, I co-direct the Stanford Big Team Science Lab, where I support various big team science initiatives (e.g., the Virtual Experience Research Accelerator, Psychological Science Accelerator, and ManyBabies Consortium).

In artificial intelligence, I am interested in ways that these new technologies can be used to monitor, predict, and change humans' emotions. For example, I recently founded the Emotion Physiology and Experience Collaboration, which seeks to improve the algorithmic recognition of emotion by (a) documenting cultural and contextual sources of model bias, and (b) building foundational datasets that can improve these models.

#### ACADEMIC APPOINTMENTS

- Social Science Research Scholar, Center for the Study of Language and Information (CSLI)

#### PROFESSIONAL EDUCATION

- Ph. D., University of Tennessee , Social Psychology (2020)
- M. A., University of Tennessee , Social Psychology (2017)
- B. S., University of Central Florida , Interdisciplinary Science (Psychology, Statistics, Cognitive Science) (2015)

#### LINKS

- <https://www.nicholas-a-coles.com/>: <https://www.nicholas-a-coles.com/>

### Research & Scholarship

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#### RESEARCH INTERESTS

- Data Sciences
- Leadership and Organization

- Psychology
- Research Methods

## Publications

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### PUBLICATIONS

- **Team scientists should normalize disagreement.** *Science (New York, N.Y.)*  
Coles, N. A., Tenney, E. R., Chin, J. M., Friedrich, J. C., O'Dea, R. E., Holcombe, A. O.  
2024; 384 (6700): 1076-1077
- **'Big team' science challenges us to reconsider authorship.** *Nature human behaviour*  
Coles, N. A., DeBruine, L. M., Azevedo, F., Baumgartner, H. A., Frank, M. C.  
2023
- **A multi-lab test of the facial feedback hypothesis by the Many Smiles Collaboration.** *Nature human behaviour*  
Coles, N. A., March, D. S., Marmolejo-Ramos, F., Larsen, J. T., Arinze, N. C., Ndukaihe, I. L., Willis, M. L., Foroni, F., Reggev, N., Mokady, A., Forscher, P. S., Hunter, J. F., Kaminski, et al  
2022
- **Fact or Artifact? Demand Characteristics and Participants' Beliefs Can Moderate, but Do Not Fully Account for, the Effects of Facial Feedback on Emotional Experience** *JOURNAL OF PERSONALITY AND SOCIAL PSYCHOLOGY*  
Coles, N. A., Gaertner, L., Frohlich, B., Larsen, J. T., Basnight-Brown, D. M.  
2022
- **Build up big-team science** *NATURE*  
Coles, N. A., Hamlin, J., Sullivan, L. L., Parker, T. H., Altschul, D.  
2022; 601 (7894): 505-507
- **Does Blocking Facial Feedback Via Botulinum Toxin Injections Decrease Depression? A Critical Review and Meta-Analysis** *EMOTION REVIEW*  
Coles, N. A., Larsen, J. T., Kuribayashi, J., Kuelz, A.  
2019; 11 (4): 294-309
- **A Meta-Analysis of the Facial Feedback Literature: Effects of Facial Feedback on Emotional Experience Are Small and Variable** *PSYCHOLOGICAL BULLETIN*  
Coles, N. A., Larsen, J. T., Lench, H. C.  
2019; 145 (6): 610-651
- **The Psychological Science Accelerator: Advancing Psychology through a Distributed Collaborative Network.** *Advances in methods and practices in psychological science*  
Moshontz, H., Campbell, L., Ebersole, C. R., IJzerman, H., Urry, H. L., Forscher, P. S., Grahe, J. E., McCarthy, R. J., Musser, E. D., Antfolk, J., Castille, C. M., Evans, T. R., Fiedler, et al  
2018; 1 (4): 501-515
- **Increasing the transparency of systematic reviews: presenting a generalized registration form.** *Systematic reviews*  
van den Akker, O. R., Peters, G. Y., Bakker, C. J., Carlsson, R., Coles, N. A., Corker, K. S., Feldman, G., Moreau, D., Nordstrom, T., Pickering, J. S., Riegelman, A., Topor, M. K., van Veggel, et al  
2023; 12 (1): 170
- **How to build up big team science: a practical guide for large-scale collaborations.** *Royal Society open science*  
Baumgartner, H. A., Alessandrini, N., Byers-Heinlein, K., Frank, M. C., Hamlin, J. K., Soderstrom, M., Voelkel, J. G., Willer, R., Yuen, F., Coles, N. A.  
2023; 10 (6): 230235
- **The Psychological Science Accelerator's COVID-19 rapid-response dataset.** *Scientific data*  
Buchanan, E. M., Lewis, S. C., Paris, B., Forscher, P. S., Pavlacic, J. M., Beshears, J. E., Drexler, S. M., Gourdon-Kanhukamwe, A., Mallik, P. R., Silan, M. A., Miller, J. K., IJzerman, H., Moshontz, et al  
2023; 10 (1): 87
- **The Benefits, Barriers, and Risks of Big-Team Science.** *Perspectives on psychological science : a journal of the Association for Psychological Science*  
Forscher, P. S., Wagenmakers, E., Coles, N. A., Silan, M. A., Dutra, N., Basnight-Brown, D., IJzerman, H.

2022: 17456916221082970

- **In COVID-19 Health Messaging, Loss Framing Increases Anxiety with Little-to-No Concomitant Benefits: Experimental Evidence from 84 Countries.** *Affective science*  
Dorison, C. A., Lerner, J. S., Heller, B. H., Rothman, A. J., Kawachi, I. I., Wang, K., Rees, V. W., Gill, B. P., Gibbs, N., Ebersole, C. R., Vally, Z., Tajchman, Z., Zsido, et al  
2022: 1-26
- **WHY LECTURES ARE LIKE BLIND DATES** *NATURE*  
Coles, N. A.  
2022; 607 (7917): S3-S4
- **Theoretical, Methodological, and Statistical Issues With Claims about the Effect of Glabellar-Region Botulinum Toxin Injections on Depression**  
Coles, N., Larsen, J.  
PERGAMON-ELSEVIER SCIENCE LTD.2022: S11-S12
- **A multi-country test of brief reappraisal interventions on emotions during the COVID-19 pandemic.** *Nature human behaviour*  
Wang, K., Goldenberg, A., Dorison, C. A., Miller, J. K., Uusberg, A., Lerner, J. S., Gross, J. J., Agesin, B. B., Bernardo, M., Campos, O., Eudave, L., Grzech, K., Ozery, et al  
2021
- **Letter to the editor: Claims about the effects of botulinum toxin on depression should raise some eyebrows.** *Journal of psychiatric research*  
Coles, N. A., Larsen, J. T.  
2021
- **To which world regions does the valence-dominance model of social perception apply?** *NATURE HUMAN BEHAVIOUR*  
Jones, B. C., DeBruine, L. M., Flake, J. K., Liuzza, M., Antfolk, J., Arinze, N. C., Ndukaihe, I. G., Bloxson, N. G., Lewis, S. C., Foroni, F., Willis, M. L., Cubillas, C. P., Vadillo, et al  
2021; 5 (1): 159-169
- **Analysis of Open Data and Computational Reproducibility in Registered Reports in Psychology** *ADVANCES IN METHODS AND PRACTICES IN PSYCHOLOGICAL SCIENCE*  
Obels, P., Lakens, D., Coles, N. A., Gottfried, J., Green, S. A.  
2020; 3 (2): 229-237
- **Developing the "Control Identity" Typology to Create More Effective Testicular Health Promotional Messaging** *AMERICAN JOURNAL OF MENS HEALTH*  
Rovito, M. J., Gordon, T. F., Bass, S. B., DuCette, J., Tierney, A. M., Coles, N.  
2018; 12 (3): 546-555
- **The costs and benefits of replication studies** *BEHAVIORAL AND BRAIN SCIENCES*  
Coles, N. A., Tiokhin, L., Scheel, A. M., Isager, P. M., Lakens, D.  
2018; 41: e124
- **Varieties of mixed emotional experience** *CURRENT OPINION IN BEHAVIORAL SCIENCES*  
Larsen, J. T., Coles, N. A., Jordan, D. K.  
2017; 15: 72-76