

Daniel Corral

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Academic History

University of Colorado Boulder Triple Doctor of Philosophy (PhD) in Psychology & Neuroscience: Cognitive Psychology, Cognitive Neuroscience, & Cognitive Science	Spring 2017
University of Colorado Boulder Master of Arts (MA) in Psychology & Neuroscience: Cognitive Psychology	Fall 2013
California State University, Northridge Master of Arts (MA) in Psychology: General Experimental Psychology	Spring 2011
California State University, Northridge Bachelor of Arts (BA) in Psychology	Spring 2009
California State University, Northridge Bachelor of Arts (BA) in Philosophy	Spring 2009

Positions Held

Assistant Professor, Department of Psychology, Syracuse University	08/2020 – Present
James S. McDonnell Foundation Postdoctoral Fellow, <i>Iowa State University, Department of Cognitive Psychology</i>	07/2017 – 07/2020

Grants, Fellowships, & Awards

• Institute of Cognitive Science Research Grant (\$500)	2017
• Institute of Cognitive Science Travel Grant (\$500)	2016
• UCB Cognitive Department Travel Fellowship Award (\$3000)	2011 – 2016
• First-Year Doctoral Student Fellowship Award (\$1000)	2011
• CSUN Award for Excellence in Graduate Quantitative Research	2011
• California Pell Grant (\$11940)	2006 – 2011
• Graduate Thesis Funding Award (\$500)	2010

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- Robert Steinmetz Thesis Award (\$750) 2010
 - California State University, Northridge Achievement Award (\$2000) 2010
 - 1st place Poster Presentation at the 14th Annual California State University,
Northridge Student Research and Creative Works Symposium 2010
 - Graduate Fellowship Equity Award (\$2000) 2009 – 2010

Peer-Reviewed Publications

- Corral, D., & Carpenter, S. K. (2020). Facilitating transfer through incorrect examples and explanatory feedback. *Quarterly Journal of Experimental Psychology*, *73*, 1340–1359.
- Corral, D., Carpenter, S. K., Perkins, K. M., & Gentile, D. A. (2020). Assessing students' use of optional online reviews. *Applied Cognitive Psychology*, *34*, 318-329.
- Corral, D., Quilici, J. L., & Rutchick, A. M. (2020). The effects of early schema acquisition on mathematical problem solving. *Psychological Research*, *84*, 1495–1506.
- Corral, D., Healy, A. F., Rozbruch, E. V., & Jones, M. (2019). Building a testing-based training paradigm from cognitive psychology principles. *Scholarship of Teaching and Learning in Psychology*, *5*, 189-208.
- Corral, D., Kurtz, K. J. & Jones, M. (2018). Learning relational concepts from within- vs. between-category comparisons. *Journal of Experimental Psychology: General*, *147*, 1571-1596.
- Carpenter, S. K., Haynes, C. L., Corral, D., & Yeung, K. L. (2018). Hypercorrection of high-confidence errors in the classroom. *Memory*, *26*, 1379-1384.
- Corral, D., & Jones, M. (2017). Learning relational concepts through unitary- versus compositional-based representations. *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (pp. 1830-1835). London, United Kingdom: Cognitive Science Society.
- Corral, D., & Jones, M. (2014). The effects of relational structure on analogical learning. *Cognition*, *132*, 280-300.
- Corral, D. & Jones, M. (2012). Learning of relational categories as a function of higher-order structure. *Proceedings of the 34th Annual Meeting of the Cognitive Science Society* (pp. 1434-1439). Sapporo, Japan: Cognitive Science Society.

Submitted Manuscripts

Corral, D., Carpenter, S. K., & Clingan-Siverly, S. *The effects of delayed versus immediate explanatory feedback on complex concept learning*. Invited minor revision at *Quarterly Journal of Experimental Psychology*.

Carpenter, S. K., Yeung, K. L., & Corral, D. *A comprehensive review of educational technology on objective learning outcomes in academic contexts*. Invited revision at *Educational Psychology Review*.

Corral, D., & Carpenter, S. K. *The long-term effects of hypercorrection on corrected misconceptions*. Manuscript submitted for publication.

Corral, D., & Burte, H. *The relationship between visuospatial and analogical reasoning*. Invited revision at *Memory & Cognition*.

Manuscripts in Preparation

Corral, D., & Carpenter, S. K. *Acquiring complex concepts through testing and explanatory feedback*. In preparation.

Corral, D., Carpenter, S. K., & Hilarie, K. S. *The effects of testing on concept-based transfer*. In preparation.

Corral, D., Healy, A. F., & Jones, M. *The effects of testing the relationships of relational concepts*. In preparation.

Conference Presentations

Corral, D., Carpenter, S. K., Hilarie, K. S, Hickman, C., Reese, E., & Benshoof, C. (2019). The effects of retrieval practice on analogical problem solving. Poster presentation at the *60th Annual Meeting of The Psychonomic Society*, Montreal, Canada.

Corral, D., Carpenter, S. K., Reese, E., Fenimore, P., Hickman, C., & Benshoof, C. (2019). The benefits of testing and feedback on complex concept learning. Paper talk presented at the *8th Annual Meeting of Society for Applied Research in Memory and Cognition*, Cape Cod, MA.

Corral, D., Carpenter, S. K., Clingan, S., Fenimore, P., Reese, E., Hickman, C., & Benshoof, C. (2019). Acquiring complex concepts through immediate versus delayed feedback. Paper talk presented at the *91st Annual Meeting of the Midwestern Psychological Association*, Chicago, IL.

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- Corral, D., Carpenter, S. K., & Clingan, S. (2018). Using testing to improve concept learning. Poster presentation at the *59th Annual Meeting of The Psychonomic Society*, New Orleans, LA.
- Corral, D., Carpenter, S. K., & Clingan, S. (2018). When being wrong makes you right: Incorrect examples improve complex concept learning. Poster presentation at the *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*. Madison, WI: Cognitive Science Society.
- Corral, D., & Carpenter, S. K. (2018). Predicting course performance through students' use of online reviews. Symposium talk at the *90th Annual Meeting of the Midwestern Psychological Association*, Chicago, IL.
- Corral, D., & Jones, M. (2017). Leveraging different types of comparisons and representations to improve relational category learning. Poster presentation at the *58th Annual Meeting of The Psychonomic Society*, Vancouver, Canada.
- Corral, D., & Jones, M. (2017). Learning relational concepts through unitary- versus compositional-based representations. Poster presentation at the *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*. London, United Kingdom: Cognitive Science Society.
- Corral, D., & Jones, M. (2016). Representational primacy: The effects of early classification training on rule-contingent learning. Poster presentation at the *57th Annual Meeting of The Psychonomic Society*, Boston, MA.
- Corral, D., Healy, A. F., & Jones, M. (2015). The effects of testing the relationships of relational concepts. Poster presentation at the *56th Annual Meeting of The Psychonomic Society*, Chicago, IL.
- Jones, M., Healy, A. F., Anderson, L., Corral, D., Lalchandani, L., & Rozbruch, E. V. (2015). Assessing student knowledge with real-time in-classroom quizzing. Symposium talk at the *56th Annual Meeting of The Psychonomic Society*, Chicago, IL.
- Corral, D., Rozbruch, E. V., Healy, A. F., & Jones, M. (2014). Predicting memory retention from an initial quiz. Poster presentation at the *55th Annual Meeting of The Psychonomic Society*, Long Beach, CA.
- Lurquin, J., Corral, D., & Rutchick, A. M. (2014). Endorsing the other Side. The effect of a delay before considering counter-attitudinal political judgments. Poster presentation at the *15th annual meeting of the Society for Personality and Social Psychology*, Austin, TX.
- Corral, D., Kurtz, K. J., & Jones, M. (2013). Learning relational and feature-based categories from matched or contrasting comparisons. Poster presentation at the *54th Annual Meeting of The Psychonomic Society*, Toronto, Canada.

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- Corral, D. (2013). Learning the category before the rule: The effects of forming categories at the outset of learning. Paper talk presented at the *32nd Annual Ekstrand Mini-Convention*, University of Colorado Boulder, Boulder, CO.
- Corral, D., Lurquin, J., & Rutchick, A. M. (2013). Counter-attitudinal reasoning and delayed responding as predictors of polarized political judgments. Poster presentation at the *14th annual meeting of the Society for Personality and Social Psychology*, New Orleans, LA.
- Camacho, T.C., Corral, D., Grover, M., & Otten, M.P. (2013). Believing is achieving: Belief as a predictor of athletic success for collegiate athletes. Poster presentation at the *14th annual meeting of the Society for Personality and Social Psychology*, New Orleans, LA.
- Corral, D. & Jones, M. (2012). Acquiring higher-order relations through schema elaboration. Poster presentation at the *53rd Annual Meeting of The Psychonomic Society*, Minneapolis, MN.
- Corral, D. & Jones, M. (2012). Learning of relational categories as a function of higher-order structure. Poster presentation at the *34th Annual Meeting of the Cognitive Science Society*, Sapporo, Japan: Cognitive Science Society.
- Corral, D. (2012). The connections matter: The acquisition of higher-order structures. Paper talk presented at the *31st Annual Ekstrand Mini-Convention*, University of Colorado Boulder, Boulder, CO.
- Grover, M., Camacho, T.C., Corral, D., & Otten, M.P. (2012). Great Expectations: Confidence, control, and junior college football. Poster presentation at the *92nd Annual meeting of the Western Psychological Association*, San Francisco, CA.
- Camacho, T.C., Corral, D., & Otten, M.P. (2011). The psychological determinants of success: Differences between starting and non-starting athletes. Poster presentation at the *Annual Association for Applied Sport Psychology*, Honolulu, HA.
- Corral, D. (2011). Predicting successful quantitative problem solving: The effects of successfully categorizing problem types. Poster presentation at the *15th Annual California State University, Northridge Student Research and Creative Works Symposium*, Northridge, CA.
- Corral, D., & Quilici, J. (2011). Reducing the load: Forming quantitative problem schemas through structural categorization. Poster presentation at the *91st Annual meeting of the Western Psychological Association*, Los Angeles, CA.
- Corral, D., & Rutchick, A.M. (2011). The timing is everything: Moral reasoning and decision outcomes before and after a delay. Paper swap at the *10th Annual meeting of the Society for Personality and Social Psychology, Justice and Morality Preconference*, San Antonio, TX.

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- Corral, D., Bravo, D.Y., Sanchez, A., & Rutchick, A.M. (2011). Is morality relative? Effects of group size on moral judgments. Poster presentation at the *91st Annual meeting of the Western Psychological Association*, Los Angeles, CA.
- Corral, D., Ratsch, L., & Otten, M.P. (2011). Developing expertise: Years of experience, anxiety regulation, and pressure performance. Symposium presentation at the *91st Annual meeting of the Western Psychological Association*, Los Angeles, CA.
- Ramsburg, J. T., Otten, M.P., & Corral, D. (2011). Can mindfulness exercises promote clutch performance under pressure in sport? Symposium presentation at the *91st Annual meeting of Western Psychological Association*, Los Angeles, CA.
- Sanchez, A. & Corral, D. (2010). The large man lives: Large groups and non-utilitarian outcomes in moral dilemmas. Poster presentation for the *Psi Chi Student Research Competition*, Northridge, CA.
- Kosar S., Corral, D. Ramsburg, J.T., Bultman, A. (2010). Run away trolley, praying for non-christians when stuck on the track: The effects of religious affiliation on utilitarian choices. Poster presentation at the *Psi Chi Student Research Competition*, Northridge, CA.
- Corral, D. (2010). The large man, the footbridge, and the trolley: The ironic effects of explicit suggestion on choices for moral dilemmas. Paper talk presented at the *12th Annual Sigma Xi Student Research Symposium*, California State University, Northridge.
- Corral, D., & Rutchick, A.M. (2010). Effects of explicit justification on decision outcomes in moral dilemmas. Poster presented at the *90th Annual meeting of the Western Psychological Association*, Cancun, Mexico.
- Rutchick, A. M., Coleman, S. R., Corral, D., Ferber, S., & Swan, A. B. (2010). The pen is mightier than the word: Priming evaluative harshness. Poster presented at the *90th Annual meeting of the Western Psychological Association*, Cancun, Mexico.
- Corral, D. (2010). Effects of explicit justification on decision outcomes in moral dilemmas. Poster presented at *14th Annual California State University, Northridge Student Research and Creative Works Symposium*, Northridge, CA.

Invited Talks

- Corral, D. (2017). Learning relational concepts through within- and between-category comparisons. Paper talk presented at Iowa State University, *Cognitive Psychology Brown Bag Series*, Ames, IA.
- Corral, D. (2017). How representation affects relational concept learning. Paper talk presented at University of Colorado Boulder, *Cognitive Lunch*, Boulder, CO.

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- Corral, D. (2016). A dual model of relational concept representation. Paper talk presented at University of Colorado Boulder, *Cognitive Lunch*, Boulder, CO.
- Corral, D. (2015). Using comparison to learn relational concepts. Paper talk presented at University of Colorado Boulder, *Cognitive Lunch*, Boulder, CO.
- Corral, D. (2014). The effects of between- and within-category comparison on relation- and feature-based learning. Paper talk presented at University of Colorado Boulder, *Cognitive Lunch*, Boulder, CO.
- Corral, D. (2011). Learning the what before the how: The effects of order of categorization and worked examples on quantitative problem solving. *California State University, Northridge Brown Bag Series*, Northridge, CA.
- Corral, D. (2011). Writing a personal statement. *California State University Northridge Graduate Peer Mentorship Workshop*, Northridge, CA.

Teaching Experience

Syracuse University

Advanced Experimental Psychology (Programing for Psychologists) Fall 2020

University of Colorado Boulder

Statistics and Research Methods: Lab Instructor/Teaching Assistant Spring 2017

Cognitive Neuroscience: Lab Instructor/Teaching Assistant Fall 2016

Statistics and Research Methods: Lab Instructor/Teaching Assistant Fall 2012

Neurobiology: Lead Teaching Assistant Spring 2012

Introductory Psychology: Lead Teaching Assistant Fall 2011

California State University Northridge

Statistical Methods in Psychology: Lab Instructor/Lead Teaching Assistant Spring 2011

Psychology of Stress: Teaching Assistant Fall 2010

Applied Cognitive Psychology: Teaching Assistant Fall 2010

Statistical Methods in Psychology: Lab Instructor/Lead Teaching Assistant Summer 2010

Journal Reviewing

- Cognitive Science
- Journal of Educational Psychology
- Journal of Experimental Psychology: Learning, Memory, and Cognition
- Journal of Memory and Language
- Memory
- Memory & Cognition
- Mind, Brain, and Education
- Psychological Research
- Scholarship of Teaching and Learning in Psychology