

ELIZABETH A. CANNING

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ACADEMIC POSITIONS

2016-current Postdoctoral Researcher
Department of Psychological and Brain Sciences, Indiana University
Advisor: Mary Murphy

EDUCATION

2016 Ph.D., Social Psychology, University of Wisconsin-Madison
Ph.D. Minor: Quantitative Methods in the Education Sciences
Advisor: Judith Harackiewicz

2012 M.S., Social Psychology, University of Wisconsin-Madison

2010 B.A., Psychology, University of Oklahoma, Summa Cum Laude

GRANTS AND FELLOWSHIPS

2015 Wisconsin HOPE Lab Dissertation Grant (\$12,000)

2013 Graduate Research Opportunity Worldwide (\$19,000)
National Science Foundation & Research Council of Norway

2013-2016 Graduate Research Fellowship, National Science Foundation (\$96,000)

2011-2013 Graduate Research Fellowship, Institute for Education Sciences (\$90,000)
UW-Madison Interdisciplinary Training Program

PUBLICATIONS

Canning, E. A., Priniski, S. J., & Harackiewicz, J. M. (in press). Unintended consequences of framing a utility-value intervention in two-year colleges. *Learning and Instruction*.

Priniski, S. J., Rosenzweig, E. Q., **Canning, E. A.**, Hecht, C. A., Tibbetts, Y., Hyde, J. S., & Harackiewicz, J. M. (in press). The benefits of combining value for the self and others in utility-value interventions. *Journal of Educational Psychology*.

- Hecht, C. A., Harackiewicz, J. M., Priniski, S. J., **Canning, E. A.**, Tibbetts, Y., & Hyde, J. S. (in press). Promoting long-term retention in the biological and medical sciences with a utility-value intervention. *Journal of Educational Psychology*.
- Canning, E. A.**, Muenks, K., Green, D. J., & Murphy, M. C. (2019). STEM faculty who believe ability is fixed have larger racial achievement gaps and inspire less student motivation in their classes. *Sciences Advances*. 5(2): eaau4734.
- Canning, E. A.** & Harackiewicz, J. M. (2019). Utility value and intervention framing. In K. A. Renninger & S. E. Hidi (Eds.), *The Cambridge Handbook on Motivation and Learning* (pp. 645-662). Cambridge: Cambridge University Press.
- Canning, E. A.**, Harackiewicz, J. M., Priniski, S. J., Hecht, C. A., Tibbetts, Y., & Hyde, J. S. (2018). Improving performance and retention in introductory biology with a utility value intervention. *Journal of Educational Psychology*, 110(6), 834-849.
- Reber, R., **Canning, E. A.**, & Harackiewicz, J. M. (2018). Personalized education to increase interest. *Current Directions in Psychological Science*. 27(6), 449-454.
- Rosenzweig, E. Q., Harackiewicz, J. M., Priniski, S. J., Hecht, C. A., **Canning, E. A.**, Tibbetts, Y., & Hyde, J. S. (2018). Choose your own intervention: Using choice to enhance the effectiveness of a utility-value intervention. *Motivation Science*. Advance online publication.
- Hyde, J. S., **Canning, E. A.**, Clarke, E., Rozek, C. S., Hulleman, C. S., & Harackiewicz, J. M. (2017). The role of mothers' communication in promoting motivation for math and science course-taking in high school. *Journal of Research on Adolescence*. 27(1), 49-64.
- Harackiewicz, J. M., **Canning, E. A.**, Tibbetts, Y., Priniski, S. J., & Hyde, J. S. (2016). Closing achievement gaps with a utility-value intervention: Disentangling race and social class. *Journal of Personality and Social Psychology*. 111(5), 745-765.
- Tibbetts, Y., Harackiewicz, J. M., **Canning, E. A.**, Boston, J. S., Priniski, S. J., & Hyde, J. S. (2016). Affirming independence: Exploring mechanisms underlying a values affirmation intervention for first-generation students. *Journal of Personality and Social Psychology*. 110(5), 635-659.
- Tibbetts, Y., Harackiewicz, J. M., Priniski, S. J., & **Canning, E. A.** (2016). Broadening participation in the life sciences with social-psychological interventions. *CBE-Life Sciences Education*, 15(3), es4.
- Canning, E. A.** & Harackiewicz, J. M. (2015). Teach it, don't preach it: The differential effects of directly communicated and self-generated utility-value information. *Motivation Science*, 1, 47-71.

- Tibbetts, Y., **Canning, E. A.**, & Harackiewicz, J. M., (2015). Academic motivation and performance: Task value interventions. In, J. D. Wright (Ed.), *International Encyclopedia of the Social and Behavioral Sciences: Interventions aimed at increasing interest motivation*, 2nd Ed (Vol. 1, pp. 37-42). Oxford: Elsevier.
- Lazarides, R., Harackiewicz, J. M., **Canning, E. A.**, Pesu, L., & Viljaranta, J. (2015). The role of parents in students' motivational beliefs and values. In Rubie-Davies, C. M., Stephens, J. M., & Watson, P. (Eds.) *The routledge international handbook of social psychology of the classroom*. (pp. 53-66). London, England: Routledge.
- Harackiewicz, J. M., **Canning, E. A.**, Tibbetts, Y., Giffen, C. J., Blair, S. S., Rouse, D. I., & Hyde, J. S. (2014). Closing the social class achievement gap for first-generation students in undergraduate biology. *Journal of Educational Psychology*, 106, 375-389.
+ Editor's Choice, *Science* (2014), 343, 6166.
- Harackiewicz, J. M., Tibbetts, Y., **Canning, E. A.**, & Hyde, J. S. (2014). Harnessing values to promote motivation in education. In S. Karabenick & T. Urden (Eds.), *Motivational interventions, advances in motivation and achievement* (Vol. 18, pp. 71-105). Bingley, UK: Emerald Group Publishing.

Manuscripts Under Review

- Canning, E. A.**, Murphy, M. C., Emerson, K. T. U., Chatman, J. A., Dweck, C. S., & Kray, L. J. (revision under review). Cultures of genius at work: Organizational mindsets predict cultural norms, trust, and commitment.
- Canning, E. A.**, LaCosse, J., Kroeper, K. M., & Murphy, M. C. (under review). Feeling like an imposter: The effect of perceived classroom competition on the daily psychological experiences of first-generation college students.
- Muenks, K., **Canning, E. A.**, Green, D. J., Zirkel, S., Garcia, J. A., & Murphy, M. C. (revise and resubmit). Does my professor think my ability can change? Students' perceptions of their STEM professors' mindset predict in-class psychological experiences.
- Rosenzweig, E. Q., Harackiewicz, J. M., Hecht, C. A., Priniski, S. J., **Canning, E. A.**, Tibbetts, Y., Asher, M. W., & Hyde, J. S. (under review). Pushed out or pulled away? Examining college students' reasons for leaving biomedical fields.

Manuscripts In Preparation

- Canning, E. A.**, Ozier, E., Williams, H., AlRasheed, R., & Murphy, M. C. (in prep). Faculty with a fixed mindset about ability undermine women's performance in STEM.

Muenks, K., Kroeper, K., **Canning, E. A.**, & Murphy, M. C. (in prep). What do fixed and growth mindset college professors actually do and say in the classroom?

AWARDS

- 2017 Dr. T. W. Adams Distinguished Lecture Award, University of Oklahoma
- 2016, 2017 Provost's Travel Award for Women in Science, Indiana University
- 2016 Poster Award, 1st place winner; Society for Personality and Social Psychology
- 2016 Travel Award; Society for Personality and Social Psychology
- 2015 Travel Award; Understanding Interventions that Broaden Participation in Science
- 2015 Poster Award, Runner-up; Society for Personality and Social Psychology
- 2015, 2014 Travel Award; American Educational Research Association Motivation SIG
- 2010 Honored Instructor Award; UW-Madison Division of University Housing

INVITED TALKS

Canning, E. A. (2019, January). Washington State University Psychology Department.

Canning, E. A. (2018, November). Yale School of Management.

Canning, E. A. (2017, November). Wake Forest University Psychology Department.

Canning, E. A. (2017, October). University of Oklahoma Psychology Department.

Canning, E. A. (2016, August). Indiana University Faculty Colloquium on Student Success.

Canning, E. A. (2016, March). Curry School of Education, University of Virginia.

Canning, E. A. (2016, February). PERC Program, Hunter College.

CONFERENCE PRESENTATIONS

Chaired Symposia

Canning, E. A. & Priniski, S. J. (2019). *Challenges and opportunities: Exploring first-generation college students' lived experiences and interventions to support their success.* Symposium presented at the meeting of the American Educational Research Association, Toronto, ON.

Canning, E. A. (2018). *Leveraging Social Psychology in Education: The interactions between individuals, instructors, and institutions.* Invited symposium at the meeting of the Society of Experimental Social Psychology, Seattle, WA.

Canning, E. A. & Muenks, K. (2018). *Family, friends, and faculty: How actual and perceived beliefs of others shape students' STEM motivation.* Symposium at the meeting of the American Educational Research Association, New York, NY.

Canning, E. A. & Harackiewicz, J. M. (2015). *Moving utility value research forward: Examining moderators, mediators, and context.* Symposium at the meeting of the American Educational Research Association, Chicago, IL.

Talks

Canning, E. A., Muenks, K., Green, D. J., Ozier, E., & Murphy, M. C. (2018). *Faculty mindsets: How professor's beliefs about ability trigger stereotype threat.* Paper presented at the meeting of the Society of Experimental Social Psychology, Seattle, WA.

Canning, E. A., Murphy, M. C., Emerson, K. T. U., Chatman, J. A., Dweck, C. S., & Kray, L. J. (2018). *Organizational mindsets predict cultural norms and employee trust and commitment.* Paper presented at the meeting of the Academy of Management, Chicago, IL.

Canning, E. A. (2018). *Challenging motivations theories: Invited perspectives of early career researchers.* Invited panelist at the meeting of the American Educational Research Association, New York, NY.

Canning, E. A., Muenks, K., Green, D. J., & Murphy, M. C. (2018). *Faculty mindsets: How professor's beliefs about ability relate to student experiences and achievement in STEM.* Paper presented at the meeting of the American Educational Research Association, New York, NY.

Canning, E. A. & Harackiewicz, J. M., (2018). *Utility value and intervention framing.* Roundtable workshop at the meeting of the American Educational Research Association, New York, NY.

Muenks, K., Canning, E. A., Green, D. J., & Murphy, M. C. (2018). *Perceptions of STEM professor mindsets predict student motivation via psychological threat.* Paper presented at the meeting of the American Educational Research Association, New York, NY.

- Canning, E. A.,** Harackiewicz, J. M., Priniski, S. J., Hecht, C. A., Tibbetts, Y., & Hyde, J. S. (2018). *Scaling up utility value interventions: Examining dosage and timing*. Paper presented at the Social and Personality Psychology of Scaling Up Pre-conference, Atlanta, GA.
- Canning, E. A.,** Priniski, S. J., & Harackiewicz, J. M. (2017). *Testing a utility value intervention in two-year colleges*. Paper presented at the meeting of the American Educational Research Association, San Antonio, TX.
- Priniski, S. J., **Canning, E. A.,** Tibbetts, Y., Hecht, C. A., Harackiewicz, J. M., & Goldrick-Rab, S. (2017). *Reducing achievement gaps with a utility value intervention in community colleges*. Paper presented at the meeting of the American Educational Research Association, San Antonio, TX.
- Harackiewicz, J. M., Priniski, S. J., **Canning, E. A.,** & Tibbetts, Y. (2017). *Examining the intersectionality of race and social class*. Paper presented at the meeting of the Society for Personality and Social Psychology, San Antonio, TX.
- Canning, E. A.,** Harackiewicz, J. M., Priniski, S. J., Hecht, C. A., Tibbetts, Y., & Hyde, J. S. (2017). *Improving performance and retention in introductory biology with a utility-value intervention*. Paper presented at the meeting of the Midwestern Psychological Association, Chicago, IL.
- Canning, E. A.,** Priniski, S. J., & Harackiewicz, J. M. (2016). *Implementing a utility value intervention in two-year colleges*. Paper presented at the Understanding Interventions that Broaden Participation in Science Careers conference, Philadelphia, PA.
- Harackiewicz, J. M., Tibbetts, Y., & **Canning, E. A.** (2016). *Improving academic fit for first-generation students*. Paper presented at the meeting of the Society for Personality and Social Psychology, San Diego, CA.
- Canning, E. A.,** Priniski, S. J., Tibbetts, Y., & Harackiewicz, J. M. (2015). *Relevance interventions: Clarifying type and timing*. Paper presented at the meeting of the American Educational Research Association, Chicago, IL.
- Harackiewicz, J. M., **Canning, E. A.,** Tibbetts, Y., & Hyde, J.S. (2015). *Closing the social class achievement gap with value interventions*. Paper presented at the meeting of the Society for Personality and Social Psychology, Long Beach, CA.
- Harackiewicz, J. M., **Canning, E. A.,** Tibbetts, Y., & Hyde, J.S. (2015). *Closing the social class achievement gap with utility value interventions*. Paper presented at the meeting of the American Educational Research Association, Chicago, IL.
- Harackiewicz, J. M., Tibbetts, Y., **Canning, E. A.,** & Hyde, J.S. (2015). *Closing the social class achievement gap in undergraduate biology courses with values affirmation interventions*.

Paper presented at the meeting of the American Educational Research Association, Chicago, IL.

Tibbetts, Y., **Canning, E. A.**, Boston, J. Hyde, J. S. & Harackiewicz, J. M. (2015). *Independently fitting in: Affirming independence improves first-generation students' academic performance*. Paper presented at the meeting of the American Educational Research Association, Chicago, IL.

Tibbetts, Y., **Canning, E.A.**, & Harackiewicz, J.M. (2015). *Closing the social class achievement gap in undergraduate biology courses with values affirmation interventions*. Paper presented at the conference on Understanding Interventions that Broaden Participation in Science Careers, San Diego, CA.

Priniski, S. J., **Canning, E. A.**, Tibbetts, Y., & Harackiewicz, J. M. (2015). *Is variety the spice of successful intervention? Comparing personal and interpersonal utility value assignments*. Paper presented at the meeting of the American Educational Research Association, Chicago, IL.

Canning, E. A., Tibbetts, Y., & Harackiewicz, J. M. (2014). *Increasing interest by communicating value*. Paper presented at the meeting of the Society for Personality and Social Psychology, Austin, TX.

Harackiewicz, J. M., **Canning, E. A.**, Tibbetts, Y., & Hyde, J. S. (2014). *Closing achievement gaps in undergraduate biology and chemistry courses with value interventions*. Paper presented at the meeting of the American Educational Research Association, Philadelphia, PA.

Harackiewicz, J. M., Tibbetts, Y., & **Canning, E. A.** (2014). *Measuring perceived utility value and personal relevance in college biology courses*. Paper presented at the meeting of the American Educational Research Association, Philadelphia, PA.

Tibbetts, Y., **Canning, E. A.**, Hyde, J. S., & Harackiewicz, J. M. (2014). *Closing the social class achievement gap: Exploring the role of social belonging*. Paper presented at the meeting of the American Educational Research Association, Philadelphia, PA.

Posters

Canning, E. A., Muenks, K., Green, D. J., & Murphy, M. C. (2018). *Faculty mindsets: How professor's beliefs about ability relate to student experiences and the racial achievement gap in STEM*. Poster presented at the Illinois Summit on Diversity in Psychological Science, Champaign, IL.

Hecht, C. A., Harackiewicz, J. M., Priniski, S. J., **Canning, E. A.**, Tibbetts, Y., & Hyde, J. S. (2018). *Utility-value interventions and college students' persistence in STEM*. Poster presented at the meeting of the American Educational Research Association, New York, NY.

Hecht, C. A., Harackiewicz, J. M., Priniski, S. J., **Canning, E. A.**, Tibbetts, Y., & Hyde, J. S. (2018). *Utility-value interventions and undergraduate persistence in STEM fields: The role of expectancies and values*. Poster presented at the meeting of the Society for Personality and Social Psychology, Atlanta, GA.

Canning, E. A., Harackiewicz, J. M., Priniski, S. J., Hecht, C. A., Tibbetts, Y., & Hyde, J. S. (2017). *Improving performance and retention in introductory biology with a utility-value intervention*. Poster presented at the Intervention Science Pre-conference, San Antonio, TX.

Priniski, S. J., **Canning, E. A.**, Tibbetts, Y., Hecht, C. A., & Harackiewicz, J. M. (2017). *Closing achievement gaps in community college courses with a utility-value intervention*. Poster presented at the meeting of the Society for Personality and Social Psychology, San Antonio, TX.

Canning, E. A., Priniski, S. J., Tibbetts, Y., & Harackiewicz, J. M. (2016). *Improving performance and retention in introductory biology with a utility value intervention*. Poster presented at the meeting of the Society for Personality and Social Psychology, San Diego, CA.
+Received the SPSP Graduate Student Poster Award, 1st place winner

Hecht, C., **Canning, E. A.**, Tibbetts, Y., Priniski, S. J., & Harackiewicz, J. M. (2016). *Connecting action to identity: Developing an attainment value intervention*. Poster presented at the meeting of the Society for Personality and Social Psychology, San Diego, CA.

Canning, E. A., Tibbetts, Y., & Harackiewicz, J. M. (2015). *Tell me something I don't know: Testing the difference between directly-communicated and self-generated relevance information*. Poster presented at the meeting of the Society for Personality and Social Psychology, Long Beach, CA.
+Received the SPSP Graduate Student Poster Award, Runner-up

Tibbetts, Y., **Canning, E. A.**, Boston, J. Hyde, J. S. & Harackiewicz, J. M. (2015). *Affirming independence: Promoting academic fit for first-generation students*. Poster presented at the meeting of the Society for Personality and Social Psychology, Long Beach, CA.

Priniski, S. J., Tibbetts, Y., **Canning, E. A.**, & Harackiewicz, J. M. (2015). *Yours, mine, and ours: The role of self-referencing in utility value writing*. Poster presented at the meeting of the Society for Personality and Social Psychology, Long Beach, CA.

Canning, E. A., Tibbetts, Y., & Harackiewicz, J. M. (2014). *Increasing interest by communicating value*. Poster presented at the meeting of the American Educational Research Association, Philadelphia, PA.

- Tibbetts, Y., **Canning, E. A.**, & Harackiewicz, J. M. (2014). *Measuring topic-specific interests in a single course: Advantages and challenges*. Structured poster session at the meeting of the American Educational Research Association, Philadelphia, PA.
- Tibbetts, Y., **Canning, E. A.**, & Harackiewicz, J. M. (2014). *Exploring the role of social belonging and cultural mismatch: First-generation college students*. Poster presented at Society of Personality and Social Psychology, Austin, TX.
- Tibbetts, Y., **Canning, E. A.**, & Harackiewicz, J. M. (2013). *Examining the positive effects of a values affirmation intervention for first-generation college students*. Poster presented at the meeting of the Society for Personality and Social Psychology, New Orleans, LA.
- Canning, E. A.**, & Harackiewicz, J. M. (2012). *Promoting utility value: Exploring the mechanisms of value transmission*. Poster presented at the meeting of the Society for Personality and Social Psychology, San Diego, CA

TEACHING EXPERIENCE

- 2015 Instructor, Growth Mindset Workshop
Pre-college Enrichment Opportunity Program for Learning Excellence
Role: Designed all workshop materials and in-class activities, led 4 different 2-day workshops.
- 2011 Instructor, Introduction to Statistics Lab, UW-Madison
Role: Taught 4 sections of weekly statistics lab in which students practiced skills in SPSS, led discussions, prepared and graded weekly lessons, wrote exams, created example datasets for students to analyze.
- 2010-2016 Research Lab Instructor, Undergraduate Research in Psychology, UW-Madison
Role: Led weekly meetings in which 10-15 undergraduate researchers read and discussed research articles, trained students for data collection, taught research methods, skills, and analytics.
- 2010 Teaching Assistant, Teaching of Psychology, UW-Madison
Role: This course is part of an innovative program in which upper-level psychology majors are trained to lead small learning communities made up of first year students enrolled in Introductory Psychology. The purpose of this program is to reduce the racial achievement gap in Introductory Psychology and my role was to train and guide the peer mentors that led the small learning communities and to facilitate weekly online discussions.
- 2010 Teaching Assistant, Introduction to Psychology, UW-Madison
Role: Prepared and graded all assignments and exams.
- 2008 Teaching Assistant, Introduction to Statistics, University of Oklahoma

Role: Graded all assignments and exams.

UNDERGRADUATE THESIS MENTORING

- 2015 Yer Thor, Senior Honors Thesis
“What teachers say matters: Making connections to promote student interest and performance”
- 2014 Nicole Rausch, Senior Honors Thesis
Recipient of Hilldale Research Excellence Award
“Looking into the future to promote student interest and performance: How far should we look?”
- 2013 Jilana Boston, Senior Honors Thesis
Recipient of Hilldale Research Excellence Award
“Closing the gender gap in math performance with a social-psychological intervention”
- 2012 Yer Thor, Independent Project
“The effect of phage hunting laboratories on engagement in first-generation undergraduates”
- 2011 Dustin Koury, Senior Honors Thesis
“The effects of utility value interventions on interest”

SERVICE

- 2017-2018 Co-organizer, Psychology Postdoc Organization, Indiana University
- 2015 Graduate Student Panel Member, 10-year Departmental Review, UW-Madison
- 2014 Social Area Group Representative, Graduate Student Orientation, UW-Madison
- 2012, 2013 Peer Mentor for New Graduate Students, Psychology Department, UW-Madison

Ad-hoc Reviewer:

NSF Grant Panel
Psychological Science
Journal of Educational Psychology
Motivation Science
Contemporary Educational Psychology
CBE-Life Sciences Education
Journal of Applied Developmental Psychology
International Journal of Educational Research
Group Processes & Intergroup Relations

PROFESSIONAL MEMBERSHIPS

Society for Personality and Social Psychology
American Education Research Association
European Association for Research in Learning and Instruction
Association for Psychological Science
Midwestern Psychological Association
Academy of Management

REFERENCES

Judith M. Harackiewicz

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