

## VITA

MICHAEL E. YOUNG

April 2022

### PERSONAL DATA

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[www.k-state.edu/psych/research/youngmike.html](http://www.k-state.edu/psych/research/youngmike.html)

### EDUCATION

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1995 Ph.D. University of Minnesota, Minneapolis  
*Major:* Psychology (Cognitive)  
*Minor:* Cognitive Science  
*Thesis Title:* A computational analysis of causal induction: The Humean cues to causality  
*Advisors:* Randy Fletcher, Bruce Overmier

1991 MS University of Minnesota, Minneapolis  
*Major:* Computer Science (Artificial Intelligence)  
*Minor:* Cognitive Science

1984 BS University of Illinois, Urbana/Champaign  
*Major:* Computer Science

### PROFESSIONAL POSITIONS

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2021 – Present Institutional Research and Assessment Faculty Fellow, Kansas State University

2012 – Present Professor of Psychological Sciences, Kansas State University

2012 – 2021 Head of the Department of Psychological Sciences,  
Kansas State University

2008 – 2012 Professor of Psychology, Brain and Cognitive Sciences program,  
Southern Illinois University at Carbondale

- 2004 – 2008 Associate professor of Psychology, Brain and Cognitive Sciences program, Southern Illinois University at Carbondale
- 2000 – 2004 Assistant professor of Psychology, Brain and Cognitive Sciences program, Southern Illinois University at Carbondale
- 1995 – 2000 Adjunct assistant professor and postdoctoral associate, University of Iowa Psychology Department. Supervisor: Dr. Edward Wasserman
- 1991 – 1995 Instructor, University of Minnesota Psychology Department. Part-time
- 1984 – 1995 Research Consultant for US Army CERL, Champaign, IL. Part-time
- 1990 – 1991 AI Programmer, Honeywell Corporation, Minneapolis, MN. Part-time
- 1985 – 1988 Systems Analyst – AI Specialist, Procter & Gamble, Cincinnati, OH. Full-time

#### **HONORS AND AWARDS**

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- 2021 Joe Brady Award, *Journal of the Experimental Analysis of Behavior*  
Author with the most frequently cited *JEAB* paper over the previous three years:  
*Discounting: A practical guide to multilevel analysis of choice data*
- 2021 Elected Fellow of the Association for Psychological Science
- 2020 Kansas State University Presidential Award for Outstanding Department Head
- 2020 Joe Brady Award, *Journal of the Experimental Analysis of Behavior*  
Author with the most frequently cited *JEAB* paper over the previous three years:  
*Discounting: A practical guide to multilevel analysis of indifference data*
- 2005 Elected Fellow of the American Psychological Association, Division 3
- 2000 Dean's Appreciation Award, Southern Illinois Univ. College of Liberal Arts
- 1999 APA Division 3 (Experimental Psychology)  
New Investigator Award - Honorable Mention
- 1997 APA Division 6 (Behavioral Neuroscience and Comparative Psychology)  
Best published paper by a recent investigator - Honorable Mention

#### **FUNDING HISTORY**

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##### *External*

- 2013 – 2015 *Funding for Executive Director - Great Plains Network.* Co-PI of grant funded by the Great Plains Network Consortium (G. Monaco, PI). \$682,347.
- 2014 *Factors affecting consumer choice of confectionaries.* PI of grant funded by the Hershey Company. Total award: \$50,000.
- 2010 – 2014 *Waiting for a better future: Deciding when to "cash in" when outcomes are continuously improving.* PI of grant funded by the National Institute for Drug Abuse (E.A. Jacobs, Co-Investigator). Total award: \$218,250.  
NIDA 1R15-DA026290

- 2007 – 2010 *Choosing among causal agents in a dynamic environment.* PI of grant funded by the National Science Foundation. Total award: \$100,897.  
NSF SES-0720588
- 2007 – 2009 *Choosing among causal agents in a stressful environment.* PI of grant funded by the Air Force Office for Scientific Research. Total award: \$142,899.  
AFOSR FA9550-07-1-0429
- 1999 – 2003 *Entropy and same-different conceptualization.* Co-PI of grant funded by the National Science Foundation (E. Wasserman, PI). Total award: \$286,056.
- Internal*
- 2013 – 2014 *Marketing of the undergraduate research experience in Psychological Sciences.* K-State Academic Excellence Award. Total award: \$2,000.
- 2012 *Conference travel funds for undergraduate researchers.* K-State Academic Excellence Award. Total award: \$4,000.
- 2007 *Simulated data analysis on the web: Enhancing the understanding of distributional and sampling assumptions.* SIUC Excellence Through Commitment Undergraduate Teaching Enhancement Award. Total award: \$13,760
- 2002 – 2003 *Eye movement and the perception of causality.* PI of grant funded by the Office of Research Development and Administration, Southern Illinois University at Carbondale. Total award: \$15,832.

## PROFESSIONAL SERVICE

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### *Service to Kansas State University*

- 2017 – Present K-State Scholarship Network Coordinator, Dept. of Psychological Sciences
- 2017 – Present Alumni Advisory Council Liaison, Dept. of Psychological Sciences
- 2022 – 2023 Graduate Student Assessment special project lead – Integrating the assessment process with PowerBI, Dept. of Psychological Sciences
- 2022 Chair, Search Committee, Teaching Asst. Professor in Psychological Sciences
- 2021 – 2022 Institutional Research and Assessment Faculty Fellow, Kansas State University
- 2018 – 2021 Member, College of Arts & Sciences Service Center Allocation Review Committee (for university RCM budget model)
- 2012 – 2021 Head, Department of Psychological Sciences
- 2013 – 2020 Summer Undergraduate Research Opportunity Program (SUROP) workshop presentation, *A Presentation on Presenting (KSRE for 2020 COVID year)*
- 2019 – 2020 Marshal, Graduate School spring graduation ceremony
- 2018 – 2019 Member, Search Committee, internal search for Associate Dean for Research, College of Arts and Sciences
- 2016 – 2018 Member, Summer School Advisory Board
- 2014 – 2018 Member, University Distinguished Professors Graduate Student Award Selection Committee
- 2016 – 2017 Member, Search Committee, national search for Vice President for Human Capital Services
- 2015 – 2016 Member, Provost's Summer School Task Force
- 2014 – 2015 Chair, Search Committee, national search for Head of Department of Art

- 2014 Member, Search Committee, internal search for Associate Dean for Academic Affairs and Research, Graduate School
- 2014 Member, Performance Review Committee, Associate Dean of Research, College of Arts and Sciences
- 2014 Faculty advisor for Summer Undergraduate Research Opportunity Program (SUROP) student, Cynthia Morales
- 2013 Member, Search Committee, Academic Advisor for Psychological Sciences

*Service to Southern Illinois University at Carbondale*

- 2011 – 2012 Member of Clinical Psychology search committee, Department of Psychology
- 2011 – 2012 Member, Promotion (to Full Professor) Review Committee for the Department of Political Sciences
- 2008 – 2012 Member, Campus-Wide Assessment Committee
- 2005 – 2012 Member of the Core Council, Center for Integrated Research in Cognitive and Neural Sciences
- Member of Center Director Search Committee, 2007 – 2008.
- 2010 – 2011 Member of College of Liberal Arts Promotion and Tenure Committee
- 2005 – 2011 Member of Faculty Seed Grant Review Panel, Social Sciences, Office for Research Development and Administration  
2005; 2006; 2011
- 2010 Member of College of Liberal Arts Writing Requirement Assessment Group
- 2007 – 2009 Member of Graduate Council
- Member of Graduate Council Program Review Committee, 2007 – 2009.
- Member of Ad Hoc Committee on Interim Appointments, 2008 – 2009.
- Member of Academic Calendar Committee, 2007 – 2008.
- 2001 – 2007 Program Director of Brain and Cognitive Sciences, Department of Psychology
- 2006 – 2007 Member, Classroom Initiative Committee
- 2006 – 2007 Member, Masters Fellowship Review Panel
- 2001 – 2004 Chair of Brain and Cognitive Sciences search committees (3)  
Department of Psychology

*Service to Discipline*

- 2022 – Present Member of the Program Committee, Society for Neuroeconomics
- 2005 – Present Member of Journal Editorial Board  
*Journal of the Experimental Analysis of Behavior* (2015 – Present)  
2019 Editor-in-Chief for Special Issue on Modern Statistical Practices in EAB  
*Frontiers in Comparative Psychology* (2010 – Present)  
*Learning and Behavior* (2005 – 2017)
- 2021 – 2022 Co-Editor of Special Issue of *Perspectives on Behavior Science*  
Topic: Advanced Quantitative Techniques for the Analysis of Large Data Sets
- 2010 – 2022 External Departmental Review  
University of Arkansas, Department of Psychological Science (2022)  
Texas Tech University, Department of Psychological Sciences (2017)  
Auburn University, Department of Psychology (2010)
- 2018 – 2021 Board of Directors, Council of Graduate Departments of Psychology  
Chair (2020 – 2021; *the COVID year!*)  
Web Master (2018 – 2020)

- Co-led sessions at the 2019 annual meeting on fund raising, methodological training, and faculty evaluation.  
Co-led sessions at the 2020 meeting on managing up, inclusive leadership, and networking.
- 2005 – 2021  
Program Chair for 2020/2021 Fall and Spring Virtual Conferences  
External Reviewer for Promotion and/or Tenure  
Louisiana State University (2021)  
University of Missouri – Kansas City (2021)  
University of Oklahoma (2017)  
Georgia Southern University (2012; 2013; 2017)  
Auburn University (2016)  
University of North Texas (2014)  
Stony Brook University (2013)  
University of Toledo (2005; 2011)  
University of Texas at El Paso (2007)
- 1999 – 2021  
Conference Session Chair  
Oklahoma/Kansas Judgment and Decision Making (2021)  
Comparative Cognition Society (2015)  
Psychonomic Society (2012), Judgment and Decision Making  
American Psychological Association (2009), Division 3 Fellows Session  
Psychonomic Society (2007), Event Cognition  
Psychonomic Society (2003), Category Learning  
Psychonomic Society (1999), Categorization I
- 2019  
Reviewer, APF/COGDOP Graduate Research Scholarships
- 2012  
Ad hoc Member, National Institutes for Health (NIH), Biobehavioral Regulation, Learning and Ethology (BRLE) Study Section Review Panel
- 2009 – 2010  
APA Accreditation Visitation Teams, Generalist Member  
University of Cincinnati, Clinical Psychology (2010)  
University of Toledo, Clinical Psychology (2010)  
University of North Carolina at Chapel Hill, School Psychology (2009)
- 2001 – 2010  
Member of student poster award committee, Society for Judgment and Decision Making (2001; 2002; 2010)
- 2007 – 2009  
Fellows Committee, APA Division 3 (Experimental Psychology)  
Assistant Chair for 2007-2008, Chair for 2008-2009.

1995 – Present Ad hoc Reviewer for:

*Acta Psychologica*  
*American Journal of Psychology*  
*Animal Behavior and Cognition*  
*Animal Cognition*  
*Applied Cognitive Psychology*  
*Archives of Scientific Psychology*  
*Attention, Perception and Psychophysics*  
*Behavior Research Methods*  
*Behavioural Brain Research*  
*Behavioural Processes*  
*Biological Psychology*  
*Child Neuropsychology*  
*Cognition*  
*Cognitive Research: Principles and Implications*  
*Comparative Cognition and Behavior Reviews*  
*Computers in Human Behavior*  
*Consciousness and Cognition*  
*Current Opinion in Behavioral Sciences*  
*Developmental Psychology*  
*Experimental and Clinical Psychopharmacology*  
*Experimental Psychology*  
*Frontiers in Behavioral Neuroscience*  
*Frontiers in Comparative Psychology*  
*Frontiers in Perception Science*  
*Games: Open Access Game Theory Journal*  
*Genetic, Social, and General Psychology Monographs*  
*IEEE Transactions on Autonomous Mental Development*  
*IEEE Transactions on Neural Systems and Rehabilitation Engineering*  
*International Journal of Comparative Psychology*  
*Journal of Applied Behavior Analysis*  
*Journal of Behavioral Decision Making*  
*Journal of Comparative Psychology*  
*Journal of Experimental Education*  
*Journal of Experimental Psychology: Animal Learning and Cognition*  
*Journal of Experimental Psychology: General*  
*Journal of Experimental Psychology: Learning, Memory and Cognition*  
*Journal of the Experimental Analysis of Behavior*  
*Journal of Trial and Error Learning and Behavior*  
*Learning and Motivation*  
*Memory and Cognition*  
*Perception and Psychophysics*  
*Perceptual and Motor Skills*  
*Personnel Assessment and Decisions*  
*Perspectives on Behavior Science*  
*Perspectives on Psychological Science*  
*Pharmacology, Biochemistry and Behavior*  
*PLOS Computational Biology*  
*PLOS One*  
*Psychonomic Bulletin and Review*  
*Psychological Bulletin*  
*Psychological Record*  
*Psychological Review*  
*Psychological Science*  
*Quarterly Journal of Experimental Psychology*  
*Scandinavian Journal of Psychology*  
*Scientific Reports*  
*Social Cognition*  
*Visual Cognition*

Grant Proposal Reviewer for:

*National Institutes of Health (various grants; ad hoc member of BRLE study section in 2012), University of Texas BRAIN Initiative, National Science Foundation (ad hoc for multiple grants), Austrian Science Fund, Wellcome Trust (UK), Marsden Fund of the Royal Society of New Zealand, National Science Centre of Poland*

Textbook Reviewer for:

*Allyn and Bacon, Elsevier, Sage Publications, Wiley Publishing, Wadsworth Publishing*

## **OTHER PROFESSIONAL ACTIVITY**

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Executive Coach Workshop Leader – Big Data, Kansas State University (January 17, 2019)  
Grant Statistical Consultant, Dr. David Gilbert of Southern Illinois University at Carbondale  
(2010 – 2018)  
Presented full day Bayesian Statistical Analysis Workshop, North Dakota State University,  
Center for Visual and Cognitive Neuroscience (October 26, 2018)

## **PROFESSIONAL AFFILIATIONS**

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Fellow, American Psychological Association (Division 3)  
Fellow, Association for Psychological Science  
Fellow, Psychonomic Society  
Behavioral and Brain Sciences Associate

## **TEACHING INTERESTS**

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Judgment and Decision Making  
Research Methods  
Statistical Methods

## **TEACHING EXPERIENCE**

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2012 – Present    Kansas State University Psychological Sciences Department.  
DAS 199: *Predicting the Future: Mind vs. Math*. CAT Community course  
Psychology 200: *Junior Seminar*  
Psychology 425: *Judgment and Decision Making*  
Psychology 802: *Psychological Research Design and Analysis I*  
Psychology 805: *Psychological Research Design and Analysis II*  
Psychology 809: *Applied Research Methods II (one-time)*  
Psychology 825: *Judgment Processes*  
Psychology 958: *Mathematical Models of Behavior*

2000 – 2012    Southern Illinois University Psychology Department  
Psychology 211: *Research Methods and Statistics in Psychology*  
Psychology 466: *Intermediate Statistics*  
Psychology 471/528: *Judgment and Decision Making*  
Psychology 489: *Seminar on Dog Behavior*  
Psychology 489: *Seminar on Predicting the Future - Mind or Mathematics?*  
Psychology 575: *Computational Modeling*  
Psychology 590: *Graduate Seminar – Advanced Cognitive Psychology*

1995 – 2000    University of Iowa Psychology Department.  
Psychology 31:016: *Introduction to Cognitive Psychology* – Co-taught  
Psychology 31:043: *Evaluating Psychological Research (a research methods  
course)*  
Psychology 31:119: *Memory and Cognition*

1991 – 1995 University of Minnesota Psychology Department.  
Psychology 1005: *Introductory Laboratory Psychology: Animal Learning and Human Memory*.  
Psychology 3011: *Introduction to Animal Learning*  
Psychology 3051: *Introduction to Cognitive Psychology*  
Psychology 5015: *Advanced Cognitive Psychology*

*Graduate Degrees Completed under my Supervision (and initial or current placement)*

Kansas State

Brian Howatt, Ph.D. (2022, *Expected*)

Angela Crumer, Ph.D. (2019)

Lisa Vangness, M.S. (2017), Ph.D. (2019)

Anthony McCoy, M.S. (2015)

Washburn U., Lecturer, Dept. of Math

Wichita State U., Assistant Professor

Ford Motor Company, Data Analytics Sci.

SIUC

Tara Webb, M.A. (2013), Ph.D. (2020)

James Cole, M.A. (2011), Ph.D. (2018)

Joseph Geeseman, Ph.D. (2012; Co-chair)

Steven Sutherland, M.A. (2009), Ph.D. (2012)

Deborah Racey, M.A. (2007), Ph.D. (2009)

Nam Nguyen, M.A. (2009)

Joshua Carlson, Ph.D. (2008; Co-chair)

Steven Neese, Ph.D. (2007; Co-chair)

Roberto Limongi, Ph.D. (2007)

Joshua Beckmann, M.A. (2005), Ph.D. (2007)

Olga Falmier, M.A. (2004), Ph.D. (2007)

Michelle Ellefson, Ph.D. (2002; Co-chair)

Kalamazoo College, Dir. of Inst. Research

Guidehouse, Sr. Consultant Data Analytics

Asst. Director Sci/Tech, Naval Air Warfare

U. of Houston/Clear Lake, Assoc. Professor

Country Financial, Insurance Servicing

iMotions, Sr. Neuroscience Prod. Specialist

Northern Michigan U., Assoc. Professor

Cornell College, Asst. Professor

U. of Western Ontario, Research Scientist

University of Kentucky, Assoc. Professor

Independent Consultant

University of Cambridge (UK), Reader

**RESEARCH INTERESTS**

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Impulsive decisions

Acquisition and perception of causal and temporal relationships in the environment

Comparative approaches to the study of variability discrimination

Computational models

**PUBLICATIONS**

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AN “\*” DESIGNATES A GRADUATE STUDENT CO-AUTHOR, “\*\*” AN UNDERGRADUATE STUDENT, AND “#” INDICATES POSTDOCTORAL ASSOCIATE (ALL AT THE TIME OF SUBMISSION).

JOURNAL ARTICLES

1. Young, M.E., & \*Howatt, B.H. (in press). Learning when to wait and when to act. *Learning and Behavior*. 10.3758/s13420-021-00482-5



2. \*Rader, A.E., Young, M.E., Leaf, J.B. (2021). A quantitative analysis of accuracy, reliability and bias in judgements of functional analyses. *Journal of the Experimental Analysis of Behavior*, *116*, 166-181.
3. Young, M.E. & Hoane, M.H. (2021). Mixed effects modeling of Morris water maze data revisited: Bayesian censored regression. *Learning and Behavior*, *49*, 307–320.  
<https://doi.org/10.3758/s13420-020-00457-y>
4. #Silveira, M., #Camargo, J.C., Aggio, N.M., \*Ribeiro, G.W., Cortez, M.D., Young, M.E., & de Rose, J.C. (2021). The influence of training procedure and stimulus valence on the long-term maintenance of equivalence relations. *Behavioural Processes*, *185*.  
<https://doi.org/10.1016/j.beproc.2021.104343>.
5. \*Vangsness, L., & Young, M.E. (2021). More isn't always better: When metacognitive prompts are misleading. *Metacognition and Learning*, *16*, 135-156.
6. Wasserman, E. A., Young, M. E., & Castro, L. (2021). Mechanisms of same-different conceptualization: Entropy happens! *Current Opinion in Behavioral Sciences*, *37*, 19-28.
7. \*Vangsness, L., & Young, M.E. (2020). Turtle, task ninja, or time-waster? Who cares - traditional task completion strategies are overrated. *Psychological Science*, *31*, 306-315.  
[doi.org/10.1177/0956797619901267](https://doi.org/10.1177/0956797619901267).
8. Young, M.E., & \*McCoy, A.M. (2019). Variations on the balloon analogue risk task: A censored regression analysis. *Behavior Research Methods*, *51*, 2509-2521.
9. \*Steele, C.C., \*\*Gwinner, M., Smith, T., Young, M.E., & Kirkpatrick, K. (2019). Experience matters: The effects of hypothetical versus experiential delays and magnitudes on impulsive choice in delay discounting tasks. *Brain Sciences*, *9*(12), 379,  
<https://doi.org/10.3390/brainsci9120379>
10. \*Vangsness, L., & Young, M.E. (2019). Central and peripheral cues to difficulty in a dynamic task. *Human Factors*, *61*, 749–762.
11. Jackson, A.T., Young, M.E., Howes, S.S., Knight, P., & \*Reichin, S. (2019). Examining factors influencing use of a decision aid in personnel selection. *Personnel Assessment and Decisions*, *5*, 1-36.
12. Loschky, L.C., Szaffarczyk, S., Beugnet, C., Young, M.E., & Boucart, M. (2019). The contributions of central and peripheral vision to scene gist recognition with a 180° visual field. *Journal of Vision*, *19*, doi:10.1167/19.5.15.
13. Young, M.E. (2019). Modern statistical practices in the experimental analysis of behavior: An introduction to the special issue. *Journal of the Experimental Analysis of Behavior*, *111*, 149-154.
14. Young, M.E. (2019). Bayesian data analysis as a tool for behavior analysts. *Journal of the Experimental Analysis of Behavior*, *111*, 225-238.

15. Peissig, J.J., Young, M.E., Wasserman, E.A., & Biederman, I. (2019). Pigeons spontaneously form three-dimensional shape categories. *Behavioural Processes*, *158*, 70-76.
16. \*Cooper, T., \*\*Liew, A., \*\*\*Andrle, G., \*\*Cafritz, T., \*\*Dallas, H., Niesen, T., \*\*Slater, E., \*\*Stockert, J., \*\*Vold, T., Young, M., & Mendelson, J. (2019). Latency in problem solving as evidence for learning in varanid and helodermatid lizards, with comments on foraging techniques. *Copeia*, *107*, 78-84.
17. Jackson, A.T., Culbertson, S.S., Kausel, E.E., Young, M.E., & \*Loftis, M.E. (2018). The impact of escalation decisions on investments, anger, and confidence over time. *Frontiers in Psychology*.
18. Young, M.E., \*Vangsness, L., & \*McCoy, A.M. (2018). The temporal dynamics of waiting when reward is increasing. *Behavioural Processes*, *18*, 193-202.
19. Young, M.E. (2018). A place for statistics in behavior analysis. *Behavior Analysis: Research and Practice*, *18*, 193-202. [dx.doi.org/10.1037/bar0000099](https://doi.org/10.1037/bar0000099)
20. Young, M.E., Sutherland, S.C., & \*McCoy, A.W. (2018). Optimal go/no-go ratios to maximize false alarms. *Behavior Research Methods*, *50*, 1020-1029. [doi.org/10.3758/s13428-017-0923-5](https://doi.org/10.3758/s13428-017-0923-5)
21. Young, M.E. (2018). Discounting: A practical guide to multilevel analysis of choice data. *Journal of the Experimental Analysis of Behavior*, *109*, 293-312. doi:10.1002/jeab.316. RECEIVED JOURNAL'S JOE BRADY AWARD FOR MOST CITED ARTICLE OVER A THREE-YEAR PERIOD.
22. \*Vangsness, L., & Young, M.E. (2017). The role of difficulty in dynamic risk mitigation decisions. *Journal of Dynamic Decision Making*, *3*, 5. doi:10.11588/jddm.2017.1.41543
23. #Smith, T.R., Young, M.E., & Beran, M. J. (2017). Gambling in rhesus macaques (*Macaca mulatta*): The effects of cues signaling risky choice outcomes. *Learning and Behavior*, *45*, 288-299.
24. Young, M.E. (2017). Discounting: A practical guide to multilevel analysis of indifference data. *Journal of the Experimental Analysis of Behavior*, *108*, 97-112. RECEIVED JOURNAL'S JOE BRADY AWARD FOR MOST CITED ARTICLE OVER A THREE-YEAR PERIOD.
25. Young, M.E., \*McCoy, A.M., \*Hutson, J.P., \*Schlabach, M., & Eckels, S. (2017). Hot under the collar: The impact of heat on game play. *Applied Ergonomics*, *59*, 209-214.
26. Limongi, R., Habib, R., Young, M.E., & Reinke, K. (2016). Broca's area activity in the lexical semantics of visual causal events: A functional connectivity study. *Revista de Linguística Teórica y Aplicada (Journal of Theoretical & Applied Linguistics)*, *54*, 43-62.
27. #Sutherland, S.C., Hartevelde, C., & Young, M.E. (2016). Effects of the advisor and environment on requesting and complying with automated advice. *Association for*

*Computing Machinery: Transactions on Interactive Intelligent Systems*, 6 (4), Article 27.

28. Young, M.E. (2016). The problem with categorical thinking by psychologists. *Behavioural Processes*, 123, 43-53.
29. Young, M.E., & \*McCoy, A.M. (2016). Millennials and chocolate product ethics: Saying one thing and doing another. *Food Quality and Preference*, 49, 42-53.
30. \*Webb, T.L., & Young, M.E. (2015). Waiting when both certainty and magnitude are increasing: Certainty overshadows magnitude. *Journal of Behavioral Decision Making*, 28, 294-307. doi: 10.1002/bdm.1850.
31. Peissig, J.J., Nagasaka, Y., Young, M.E., Wasserman, E.A., & Beiderman, I. (2015). Using the reassignment procedure to test object representation in pigeons and people. *Learning and Behavior*, 43, 188-207. *SELECTED AS BEST PAPER PUBLISHED IN L&B IN 2015.*
32. #Sutherland, S.C., Hartevelde, C., & Young, M.E. (2015). The role of environmental predictability and costs in relying on automation. *Proceedings of the 33<sup>rd</sup> Annual SIGCHI Conference on Human Factors in Computing Systems* (pp. 2535-2544). Association for Computing Machinery: New York.
33. \*Rung, J.M., & Young, M.E. (2015). Learning to wait for more likely or just more: Greater tolerance to delays of reward with increasingly longer delays. *Journal of the Experimental Analysis of Behavior*, 103, 108-124.
34. Young, M.E., & \*McCoy, A.M. (2015). A delay discounting task produces longer waiting than an equivalent deferred gratification task. *Journal of the Experimental Analysis of Behavior*, 103, 180-195.
35. Young, M.E. (2014). Sex differences in the inference and perception of causal relations within a video game. *Frontiers in Psychology*, 5, 926. doi: 10.3389/fpsyg.2014.00926.
36. Young, M.E., \*Webb, T.L., \*\*Rung, J.M. & \*McCoy, A.M. (2014). Outcome probability versus magnitude: When waiting benefits one at the cost of the other. *PLOS ONE*, 9(6), e98996. doi:10.1371/journal.pone.0098996.
37. \*\*Rung, J.M., & Young, M.E. (2014). Training tolerance to delay using the escalating interest task. *Psychological Record*, 64, 423-431. doi:10.1007/s40732-014-0045-8.
38. Young, M.E., & Racey, D.E. (2014). Effects of response frequency constraints on learning in a non-stationary multi-armed bandit task. Special Issue of the *International Journal of Comparative Psychology*, 27, 106-122.
39. Lazareva, O., Young, M.E., & Wasserman, E.A. (2014). A three-component model of relational responding in a transposition task. *Journal of Experimental Psychology: Animal Learning and Cognition*, 40, 63-80.

40. Young, M.E., \*Webb, T.L., \*\*Rung, J., & Jacobs, E.A. (2013). Sensitivity to changing contingencies in an impulsivity task. *Journal of the Experimental Analysis of Behavior*, *99*, 335-345.
41. #Limongi, R., \*Sutherland, S.C., \*Zhu, J., Young, M.E., & Habib, R. (2013). Temporal prediction errors modulate cingulate-insular coupling. *NeuroImage*, *71*, 147-157.
42. Young, M.E., \*Webb, T.L., \*Sutherland, S.C., & Jacobs, E.A. (2013). Magnitude effects for experienced rewards at short delays in the escalating interest task. *Psychonomic Bulletin and Review*, *20*, 302-309.
43. Castro, L., Wasserman, E.A, & Young, M.E. (2012). Variations on variability: Effects of display composition on same-different discrimination in pigeons. *Learning and Behavior*, *40*, 416-426.
44. Young, M.E., \*Cole, J. J., & \*Sutherland, S.C. (2012). Rich stimulus sampling for between-subjects designs improves model selection. *Behavior Research Methods*, *44*, 176-188.
45. Young, M.E., & \*Cole, J.J. (2012). Human sensitivity to the magnitude and probability of a continuous causal relation in a video game. *Journal of Experimental Psychology: Animal Behavior Processes*, *38*, 11-22.
46. Young, M.E., \*Webb, T.L., & Jacobs, E.A. (2011). Deciding when to “cash in” when outcomes are continuously improving. *Behavioural Processes*, *88*, 101-110.
47. #Limongi Tirado, R., & Young, M.E. (2011). Language-driven spatiotemporal causal integration in the prefrontal and premotor cortices. *Revista de Linguística Teórica y Aplicada (Journal of Theoretical and Applied Linguistics)*, *49*, 13-27.
48. \*Racey, D.E., Young, M.E., #Garlick, D., \*\*Pham, J.N., & Blaisdell, A. (2011). Pigeon and human performance in a multi-armed bandit task in response to changes in variable interval schedules. *Learning and Behavior*, *39*, 245-258.
49. Young, M.E., \*Sutherland, S.C., \*Cole, J.J., & \*Nguyen, N. (2011). Waiting to decide helps in the face of probabilistic uncertainty but not delay uncertainty. *Learning and Behavior*, *39*, 115-124.
50. Young, M.E., \*Sutherland, S.C., & \*Cole, J.J. (2011). Individual differences in causal judgment under time pressure: Sex and prior video game experience as predictors. *International Journal of Comparative Psychology*, *24*, 76-98.
51. \*Nguyen, N., Young, M.E., & \*Cole, J.J. (2010). The effect of number of options on choices involving delayed causation. *American Journal of Psychology*, *123*, 477-487.
52. \*Stahlman, W.D., Young, M.E., & Blaisdell, A.P. (2010). Response variability in pigeons in a Pavlovian task. *Learning and Behavior*, *38*, 111-118.

53. Wasserman, E.A., & Young, M.E. (2010). Same-different discrimination: The keel and backbone of thought and reasoning. *Journal of Experimental Psychology: Animal Behavior Processes*, 36, 3-22.
54. \*Beckmann, J.S., & Young, M.E. (2009). The effects of stimulus dynamics on temporal discrimination. *Journal of Experimental Psychology: Animal Behavior Processes*, 35, 525-553.
55. Young, M.E., & \*Sutherland, S. (2009). The spatiotemporal distinctiveness of direct causation. *Psychonomic Bulletin and Review*, 16, 729-735.
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#### BOOK CHAPTERS

1. Young, M.E. (2012). Contemporary thought on the environmental cues that determine causal decisions. T.R. Zentall & E.A. Wasserman (Eds.), *Oxford Handbook of Comparative Cognition* (pp. 141-156). New York: Oxford University Press.
2. Fagot, J., Wasserman, E., & Young, M. (2004). *Categorisation d'objets visuels et concepts relationnels chez l'animal* [Categorization of visual objects and relational concepts by animals]. In J. Vauclair & M. Kreutzer (Eds.), *L'ethologie cognitive* [Cognitive ethology] (pp. 117-136). Paris, Edition de la Maison des Sciences de l'Homme.
3. van den Broek, P., Young, M.E., \*Tzeng, Y., & Linderholm, T. (2004). The Landscape model of reading: Inferences and the on-line construction of a memory representation. In R. B. Ruddell & N.J. Unrau (Eds.), *Theoretical models and processes of reading* (pp. 1244-1269). Newark, DE: International Reading Association.
4. Young, M. E., & Wasserman, E. A. (2004). Theories of learning. In K. Lamberts & R. Goldstone (Eds.), *Handbook of Cognition* (pp. 161-182). Sage Publications.



5. Young, M. E., & Wasserman, E. A. (2003). Visual variability discrimination. In S. A. Soraci & K. Murata-Soraci (Eds.), *Perspectives on fundamental processes in intellectual functioning: Visual information processing* (pp. 171-197). New York: Elsevier/Praeger.
6. Young, M.E., & Wasserman, E.A. (2001). Stimulus control in complex arrays. In R. Cook (Ed.), *Avian Visual Cognition* [On-line]. Available: <http://www.pigeon.psy.tufts.edu/avc>.
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8. van den Broek, P., Young, M.E., \*Tzeng, Y., & \*Linderholm, T. (1999). The Landscape model of reading: Inferences and the on-line construction of a memory representation. In H. van Oostendorp & S. Goldman (Eds.), *The construction of mental representations during reading*. Mahwah, NJ: Lawrence Erlbaum.
9. Young, M.E. (1997). Implicit processes in the development of causal knowledge: A connectionist model of the use of Humean cues. In P. van den Broek, P. Bauer, & T. Berg (Eds.), *Developmental spans in event comprehension and representation: Bridging fictional and actual events* (pp. 29-50). Hillsdale, NJ: Lawrence Erlbaum.
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#### PROCEEDINGS AND OTHER PUBLICATIONS

1. Hildebrandt, B.A., Fisher, H., LaPalomara, Z., Young, M.E., and Ahmari, S.E. (2021). Corticostriatal dynamics underlying components of binge-like eating in mice. bioRxiv. <https://www.biorxiv.org/content/10.1101/2021.11.04.467011v1>
2. Young, M.E. & \*Crumer, A. (2019). Reaction times. In J. Vonk & T.K. Shackelford (Eds.), *Encyclopedia of Animal Cognition and Behavior*. Springer. doi:10.1007/978-3-319-47829-6\_731-1
3. Eckels, E.N., Schlabach, M., Young, M.E., Eckels, S. (2017). Measured thermal comfort and sensation in highly transient environments. *ASHRAE Transactions – 2017 Winter Conference – Las Vegas, 123*.
4. Young, M.E. (2012). Categorization, generalization, and discrimination. In N.M. Seel (Ed.), *Encyclopedia of the Sciences of Learning*. Springer.
5. Young, M.E. (2007). [Review of the book *Dark Ages: The Case for a Science of Human Behavior*]. *Perspectives on Science and Christian Faith*, 59, 246.

6. Young, M.E. (2004). The short- and long-term consequences of believing an illusion. *Behavioral and Brain Sciences*, 27, 677-678. Commentary.
7. Schlesinger, M., & Young, M.E. (2003). Examining the role of prediction in infants. In *Proceedings of the Twenty-Fifth Annual Conference of the Cognitive Science Society*.
8. Young, M.E. (1999). Setting the occasion for informative research [Review of the book *Occasion setting: Associative learning and cognition in animals*]. *Contemporary Psychology*, 44, 232-233.
9. Young, M.E., & \*Bailey, T.M. (1994). Event prediction: Faster learning in a layered Hebbian network with memory. In M.C. Mozer, P. Smolensky, D.S. Touretzky, J.L. Elman & A.S. Weigend (Eds.). *Proceedings of the 1993 Connectionist Models Summer School* (pp. 245-252). Hillsdale, NJ: Lawrence Erlbaum.
10. Young, M.E., & \*\*DeBauche, B. (1993). Causal mechanisms as temporal bridges in a connectionist model of causal attribution. In *Proceedings of the Fifteenth Annual Conference of the Cognitive Science Society* (pp. 1092-1097). Hillsdale, NJ: Lawrence Erlbaum.
11. Young, M.E. (1992). A simple recurrent network model of serial conditioning: Implications for temporal event representation. In *Proceedings of the Fourteenth Annual Conference of the Cognitive Science Society* (pp. 1164-1169). Hillsdale, NJ: Lawrence Erlbaum.

#### SUBMITTED OR IN PREPARATION

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- \*Rader, A., Young, M.E., Weiss, M.J., & Leaf, J. (submitted). Visual analysis of confidence intervals to supplement interpretation of functional analyses.
- \*Howatt, B.H., & Young, M.E. (submitted). The function of sound in the balloon analogue risk task.
- \*Brandner, J.L., Brase, G.L., & Young, M.E. (submitted). Size, scale, and design matter: Commentary on Lewis, Al-Shawaf, Semchenko, and Evans (2022)
- Hildebrandt, B.A., Fisher, H., LaPalomara, Z., Young, M.E., and Ahmari, S.E. (in preparation). Corticostriatal dynamics underlying components of binge-like eating in mice
- \*Howatt, B.H., Wisniewski, M., Zakrzewski, A., & Young, M.E. (in preparation). Changes in feedback-related negativity in a competitive rock-paper-scissors task.
- \*Allison, M., \*Howatt, B.H., Wisniewski, M., Zakrzewski, A., & Young, M.E. (in preparation). The dynamics of feedback-related negativity when payoffs change.
- Young, M.E., & \*Howatt, B.H. (in preparation). Resource limitations as a delayed consequence during video game play.

\*Howatt, B.H., & Young, M.E. (in preparation). Humans outperform reinforcement learning algorithms in a competitive game.

\*Frankot, M., Young, M.E., & Vonder Haar, C. (in preparation). Improving analysis of multi-category exclusive responses by rats.

\*Frankot, M., Young, M.E., & Vonder Haar, C. (in preparation). Leveraging large datasets to assess individual variability in behavioral neuroscience.

#### **CONFERENCE PAPERS/POSTERS PRESENTED**

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1. Howatt, B.C. & Young, M.E. (2022, June). *Humans outperform reinforcement learning-based algorithms in a competitive game*. Poster presentation at the Multidisciplinary Conference on Reinforcement Learning and Decision Making, Providence, RI.
2. Rader, A., Young, M.E., Weiss, M.J., & Leaf, J. (2022, May). *Confidence intervals to supplemental visual analysis in interpretation of functional analyses*. Symposium presentation for the annual meeting of the Association for Behavior Analysis International, Boston, MA.
3. Young, M.E., Rader, A., & Leaf, J. (2022, May). *A quantitative analysis of accuracy, reliability and bias in judgements of functional analyses*. Symposium presentation for the annual meeting of the Association for Behavior Analysis International, Boston, MA.
4. Young, M.E. (2022, May). *Response limitations: How depletion and replenishment cliffs affect waiting*. Invited presentation for the annual meeting of the Society of the Quantitative Analysis of Behavior, Boston, MA.
5. \*Howatt, B., & Young, M.E. (2021, May). *Experiencing delayed punishments reduces impulsivity*. Paper presented at the annual meeting of the Society for the Quantitative Analysis of Behavior, Virtual.
6. \*Howatt, B., & Young, M.E. (2021, April). *Learning when to wait and when to act*. Paper presented at the annual meeting of the Oklahoma/Kansas Judgment and Decision Making Conference, Virtual.
7. \*Howatt, B., & Young, M.E. (2020, November). *Cue omission reduces sensitivity to impulsive and self-controlled reward contingencies*. Poster presented at the annual meeting of the Psychonomic Society, Virtual Conference.
8. Vangsness, L., & Young, M.E. (2019, October). *Metacognition in human factors: The rewards and consequences of repeated assessment*. Poster presented at the annual meeting of the Human Factors and Ergonomic Society, Seattle, WA.

9. \*Howatt, B., & Young, M.E. (2019, May). *The effects of sound on dynamic risk-taking*. Poster presented at the annual meeting of the Mid-American Association for Behavior Analysis, Omaha, NE.
10. \*Howatt, B., & Young, M.E. (2019, May). *Adaptive learning in competitive games*. Paper presented at the annual meeting of the Society for the Quantitative Analysis of Behavior, Chicago, IL.
11. \*Camargo, J., & Young, M.E. (2019, May). *Using generalized linear mixed-effects models to analyze data from a common-pool resources task*. Paper presented at the annual meeting of the Society for the Quantitative Analysis of Behavior, Chicago, IL.
12. \*Vangsness, L., & Young, M.E. (2018, November). *Procrastination among undergraduate students: A longitudinal study of research credit completion*. Poster presented at the annual meeting of the Psychonomic Society, New Orleans, LA.
13. Young, M.E., Sutherland, S.C., & \*McCoy, A.W. (2018, November). *Variables affecting go/no-go discrimination and response bias*. Paper presented at the annual meeting of the Psychonomic Society, New Orleans, LA.
14. \*Vangsness, L., & Young, M.E. (2018, October). *Central and peripheral cues to difficulty in a dynamic task*. Poster presented at the annual meeting of the Human Factors and Ergonomic Society, Philadelphia, PA.
15. Young, M.E. (2018, May). *The need for research on the relationship between degrees of behavior and degrees of reinforcement*. Invited paper presented at the annual conference for the Society for the Quantitative Analysis of Behavior, San Diego, CA.
16. Jackson, A.T., Knight, P.A., Young, M.E., & Howes, S.S. (2018, April). *Examining factors influencing reliance on decision aids in personnel selection*. In D. C. Zhang & B. Doyle (Chairs). Decision-aid aversion in employee selection. Paper presented the Annual Meeting for the Society for Industrial and Organizational Psychology, Chicago, IL.
17. Jackson, A.T., Culbertson, S.S., Kausel, E.E., & Young, M.E. (2017, May). *The impact of escalation decisions on investments, anger, and confidence over time*. Poster presented at Congress of the European Association of Work and Organizational Psychology, Dublin, Ireland. *Winner of Best Practitioner Poster Award*.
18. Young, M.E. (2017, April). *Multilevel regression modeling in comparative cognition*. Workshop presented at the Annual Meeting of the Conference on Comparative Cognition, Melbourne, FL.
19. Young, M.E., & Reed, D.D. (2017, March). *Using nonlinear multilevel modeling to evaluate delay discounting functions*. Poster presented at the Biennial International Convention of Psychological Science, Vienna, Austria.

20. \*Vangsness, L., & Young, M.E. (2016, November). *A dynamic paradigm for the study of effort discounting*. Poster presented at the Annual Meeting of the Psychonomic Society, Boston, MA.
21. Young, M.E., \*McCoy, A.M., & \*Vangsness, L. (2016, April). *Trimodal latencies in waiting for better outcomes*. Paper presented at the annual Oklahoma/Kansas Judgment and Decision Making Conference, Oklahoma City, OK
22. \*\*Tenbrink, A.P., & Young, M.E., (2016, April). *When hurrying offsets the benefits of time-based goal setting*. Poster presented at the Annual Meeting of the Society for Industrial and Organizational Psychology, Anaheim, CA.
23. \*McCoy, A. W., & Young, M. E. (2015, November). *Factors affecting the amplitude of the feedback-related negativity on the balloon analogue risk task*. Poster presented at the Annual Meeting of the Psychonomic Society, Chicago, IL.
24. \*McCoy, A.W., & Young, M.E. (2015, November). *Millennials and chocolate product ethics: Saying one thing and doing another*. Poster presented at the annual meeting of the Society for Judgment and Decision Making, Chicago, IL.
25. \*McCoy, A. W., & Young, M. E. (2015, October). *Modulation of the amplitude of the feedback-related negativity during the balloon analogue risk task*. Poster presented at the Annual Meeting of the Society for Neuroscience, Chicago, IL.
26. Young, M.E. (2015, September). *Experiencing delays and their consequences during game play*. Symposium presentation at the annual meeting of the Society of Experimental Social Psychology, Denver, CO.
27. \*Jackson, A.T., Culbertson, S.S., Kausel, E.E., & Young, M.E. (2015, August). *The influence of goal orientation on exploration versus exploitation choice*. Poster presented at the annual meeting of the American Psychological Association, Toronto, ON.
28. Young, M.E. (2015, April). *How categorical thinking limits scientific progress in psychology*. Invited paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
29. \*Crumer, A., & Young, M.E. (2015, April). *Investigating the effects of truncation and aggregation on reaction time data*. Paper presented at the annual meeting of the Southwestern Psychological Association, Wichita, KS.
30. Young, M.E. (2015, April). *The problem with categorical thinking by psychologists*. Invited paper presented at the annual meeting of the Conference on Comparative Cognition, Melbourne, FL.
31. Young, M.E., \*Webb, T.L., \*Rung, J.M., \*McCoy, A.W. (2014, May). *Impulsivity and risk taking in a gaming environment*. Invited symposium presentation at the annual meeting of the Association for Behavioral Analysis International, Chicago, IL.

32. \*Frye, C., Jacobs, E.A., & Young, M.E. (2014, May). *Holding for a better outcome: Continuously changing probability and magnitude in an accumulation task*. Poster presented at the annual meeting of the Association for Behavioral Analysis International, Chicago, IL.
33. Young, M.E., \*Webb, T.L., \*Rung, J.M., \*McCoy, A.W. (2014, April). *Outcome probability versus magnitude: When waiting benefits one at the cost of the other*. Paper presented at the annual Oklahoma/Kansas Judgment and Decision Making Conference, Oklahoma City, OK.
34. \*Webb, T.L., & Young, M.E. (2013, November). *Waiting when both certainty and magnitude are increasing: Certainty overshadows magnitude again*. Poster presented at the annual meeting of the Psychonomic Society, Toronto, ON.
35. \*McCoy, A.M., & Young, M.E. (2013, November). *Variations on the Balloon Analogue Risk Task*. Poster presented at the annual meeting of the Society for Judgment and Decision Making, Toronto, ON.
36. Hernandez Nopsa, J.F., Ramirez, G.M., Natarajan, B., Prasad, V.P.V., Thomas, S., Young, M.E., & Garrett, K.A. (2013, August). *Uncertainty and agricultural decision making under climate change: When do decision support systems fail, become more important, or require updating?* Poster presented at the joint meeting of the American Phytopathological Society and the Mycological Society of America, Austin, TX.
37. Young, M.E. (2013, July). *Waiting when magnitude and likelihood are changing*. Invited one-day seminar at Utah State University, Department of Psychology.
38. Young, M.E. (2013, July). *Causal choice in the face of environmental complexity*. Invited paper presented at the annual meeting of the International Cognitive Science Society (Special Symposium titled *Time and Causality: Mutual Constraints – Insights from Event and Time Perception, Motor Control, and Gaming*), Berlin, Germany.
39. \*Webb, T.L., Young, M.E., & Jacobs, E.A. (2013, May). *The relative effects of increasing probability and magnitude on delay in an experience-based task*. Poster presented at the annual meeting of the Association for Behavior Analysis International, Minneapolis, MN.
40. \*Frye, C., Jacobs, E.A., & Young, M.E. (2013, May). *Differential reinforcement of lever holding in rats: Assessing the effects of probabilistic reinforcement on temporal discounting in a single manipulandum procedure*. Poster presented at the annual meeting of the Society for the Quantitative Analyses of Behavior, Minneapolis, MN.
41. Young, M.E. (2013, May). *Delay discounting versus deferred gratification in a video game*. Paper presented at the annual Oklahoma/Kansas Judgment and Decision Making Conference, Oklahoma City, OK.
42. Young, M.E., \*Webb, T.L., \*Cole, J.J., & Jacobs, E.A. (2012, November). *Patterns of impulsive choice produced by experience-based delay discounting, delay of gratification, and escalating interest tasks*. Paper presented at the annual meeting of the Society for Judgment and Decision Making, Minneapolis, MN.

43. Young, M.E., \*Webb, T.L., \*\*Rung, J.M., & Jacobs, E.A. (2012, November). *Order effects in impulsive choice*. Paper presented at the annual meeting of the Psychonomic Society, Minneapolis, MN.
44. \*\*Rung, J. M., Young, M.E., & Jacobs, E.A. (2012, May). *Lasting effects of exponentially increasing outcomes in a video game*. Poster presented at the annual meeting of the Society for the Quantitative Analyses of Behavior, Seattle, WA.
45. \*Cole, J. J., & Young, M.E. (2012, May). *Experience-based temporal discounting shows no effects of uncertainty or reward magnitude*. Poster presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
46. \*Webb, T.L., Young, M.E., & Jacobs, E.A. (2012, May). *The magnitude effect in a video game task*. Poster presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
47. Limongi Tirado, R., \*Sutherland, S.C., \*Zhu, J., Young, M.E., & Habib, R. (2012, April). *Temporal prediction errors anticipatorily modulate cingulate-insular connections*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Chicago, IL.
48. Young, M.E. (2012, March). *When seconds matter: Choosing when to wait for a better outcome while gaming*. Invited colloquium at the National Institute for Drug Abuse, Washington, DC.

*In addition, 108 other presentations before 2012.*