

Andrea Michael Cataldo
Curriculum Vitae

Contact Information

Mail: 225 deMarneffe Building
McLean Hospital
115 Mill St.
Belmont MA 02478
E-Mail: amcataldo@mclean.harvard.edu
Phone: 617-855-4243

Academic Appointments

2021 – present **Instructor**
Harvard Medical School, Boston MA
Department of Psychiatry

2019 – 2021 **Research Fellow**
Harvard Medical School, Boston MA
Department of Psychiatry

Institutional Appointments

2021 – present **Assistant Neuroscientist**
McLean Hospital, Belmont MA
Center for Depression, Anxiety, & Stress Research
Motivated Learning & Memory Laboratory

2019 – 2021 **Postdoctoral Research Fellow**
McLean Hospital, Belmont MA
Center for Depression, Anxiety, & Stress Research
Motivated Learning & Memory Laboratory

Education

Ph.D.
2019 **University of Massachusetts:** Amherst, MA
Program: Cognitive Psychology
Advisor: Dr. Andrew Cohen
Dissertation: *A Flexible Comparison Process as a
Critical Mechanism for Context Effects*

M.S.
2016

University of Massachusetts: Amherst, MA
Program: Cognitive Psychology
Advisor: Dr. Andrew Cohen
Thesis: *The Influence of Discrete Emotional States on Preferential Choice*

B.A.
2009

University of Massachusetts: Amherst, MA
Major: Psychology; Minor: Philosophy
Magna Cum Laude
Thesis: *The Effects of Uncertain Mood on Pattern Perception: A Signal Detection Perspective*

Awards

Alfred Pope Award for Early Career Investigators, McLean Hospital, 2023
Society for Biological Psychiatry Travel Fellowship Award, 2023
UMass Psychological & Brain Sciences Travel Award, 2017, 2018
John & Abigail Adams Tuition Waiver, 2005-2009

Publications

Cataldo, A. M., Scheuer, L., Maksimovskiy, A. L., Germine, L. T., & Dillon, D. G. (2023). Abnormal Evidence Accumulation Underlies the Positive Memory Deficit in Depression. *Journal of Experimental Psychology: General*.

Maksimovskiy, A. L., Okine, C., Cataldo, A. M., & Dillon, D. G. (2022). Sluggish retrieval of positive memories in depressed adults. *Cognitive, Affective & Behavioral Neuroscience*.

Elhamiasl, M., Silva, G., Cataldo, A. M., Hadley, H., Arnold, E., Tanaka, J. W., Curran, T., & Scott, L. S. (2022). Dissociations between performance and visual fixations after subordinate-and basic-level training with novel objects. *Vision research*, 191, 107971.

Aczel, B., Szaszi, B., Nilsonne, G., Van Den Akker, O. R., Albers, C. J., Van Assen, M. A., ... & Wagenmakers, E. J. (2021). Science Forum: Consensus-based guidance for conducting and reporting multi-analyst studies. *Elife*, 10, e72185.

Cataldo, A. M., & Cohen, A. L. (2021). The influence of within-alternative and within-dimension similarity on context effects. *Decision*, 8(3), 202.

Cataldo, A. M. & Cohen, A. L. (2020b). Framing context effects with reference points. *Cognition*, 203, 104334.

- Cataldo, A. M., & Cohen, A. L. (2020a). Modelling preference reversals in context effects over time. *Computational Brain & Behavior*, 1-23.
- Cohen, A. L., Starns, J. J., Rotello, C. M., & Cataldo, A. M. (2020). Estimating the proportion of guilty suspects and posterior probability of guilt in lineups using signal-detection models. *Cognitive Research: Principles and Implications*, 5(1), 1-24. *2020 Psychonomic Society Best Article Award Recipient
- Starns, J. J., Cataldo, A. M., & Rotello, C. M. (2019). Blinded inference: An opportunity for mathematical modelers to lead the way in research reform. *Computational Brain & Behavior*, 2(3-4), 223-228.
- Starns, J. J., Cataldo, A. M., Rotello, C. M., et al. (2019). Assessing theoretical conclusions with blinded inference to investigate a potential inference crisis. *Advances in Methods and Practices in Psychological Science*, 2(4), 335-349.
- Cataldo, A. M., & Cohen, A. L. (2019). The comparison process as an account of variation in the attraction, compromise, and similarity effects. *Psychonomic Bulletin & Review*, 26(3), 934-942.
- Cataldo, A. M., & Cohen, A. L. (2018). Reversing the similarity effect: The effect of presentation format. *Cognition*, 175, 141-156.
- Jones, T., Hadley, H., Cataldo, A. M., Arnold, E., Curran, T., Tanaka, J. W., & Scott, L. S. (2018). Neural and behavioral effects of subordinate-level training of novel objects across manipulations of color and spatial frequency. *European Journal of Neuroscience*.
- Cataldo, A. M., & Cohen, A. L. (2015). The effect of emotional state on visual detection: A signal detection analysis. *Emotion*, 15(6), 846-853.
- Wolff, J. C., Frazier, E. A., Esposito-Smythers, C., Becker, S. J., Burke, T. A., Cataldo, A., & Spirito, A. (2014). Negative cognitive style and perceived social support mediate the relationship between aggression and NSSI in hospitalized adolescents. *Journal of Adolescence*, 37(4), 483-491.
- Liu, R. T., Frazier, E. A., Cataldo, A. M., Simon, V. A., Spirito, A., & Prinstein, M. J. (2014). Negative life events and non-suicidal self-injury in an adolescent inpatient sample. *Archives of Suicide Research*, 18(3), 251-258.
- Becker, S. J., Swenson, R. R., Esposito-Smythers, C., Cataldo, A. M., & Spirito, A. (2014). Barriers to seeking mental health services among adolescents in military families. *Professional Psychology: Research and Practice*, 45(6), 504-513.

Chen, Y., Cataldo, A., Norton, D. & Ongur, D. (2012). Distinct facial processing in schizophrenia and schizoaffective disorders. *Schizophrenia Research*, 134(1), 95-100.

Conference Presentations

Cataldo, A. M. & Dillon, D. G. (2023, April). The positive memory deficit in depression: Linking abnormal evidence accumulation to reduced caudate and hippocampal activation at retrieval. Poster session presented at the annual meeting of the Society of Biological Psychiatry, San Diego, CA. Presented by Cataldo.

Cataldo, A. M. & Dillon, D. G. (2023, March). The PRISM task: Distinguishing memory strength from motivated retrieval in the positive memory advantage. Poster session presented at Harvard Psychiatry Research Day, Boston, MA. Presented by Cataldo.

Cataldo, A. M. & Dillon, D. G. (2023, January). The PRISM task: Disentangling evidence strength from motivated retrieval in emotional memory. Poster session presented at McLean Research Day, Belmont, MA. Presented by Cataldo.

Dillon, D. G., Maksimovskiy, A. L., Rochat, K. C., Akman, E., Cataldo, A. M., & Auerbach, R. P. (2021, April). Dissociable effects of positive prediction errors and post-error adjustments on memory formation in depressed adolescents. Poster session presented at the annual meeting of the Society of Biological Psychiatry (virtual). Presented by Dillon.

O'Neill, C. A., Cataldo, A. M., Barrick, E., & Dillon, D. G. (2021, April). Reduced reward responsiveness in depressed adults: An RL-DDM analysis of the PST. Poster session presented at Harvard Psychiatry Research Day (virtual). Presented by O'Neill.

Cataldo, A. M., Scheuer, L., Germine, L. T., & Dillon, D. G. (2021, March). Memory advantage for positive stimuli is compromised in depression. Poster session presented at the annual meeting of the Anxiety and Depression Association of America (virtual). Presented by Cataldo.

O'Neill, C. A., Cataldo, A. M., Barrick, E., & Dillon, D. G. (2021, January). Reduced reward responsiveness in depressed adults: An RL-DDM analysis of the PST. Poster session presented at McLean Research Day (virtual). Presented by O'Neill.

Cataldo, A. M., Scheuer, L., Germine, L. T., & Dillon, D. G. (2020, May). Memory advantage for positive stimuli is compromised in depression. Poster session presented at the annual meeting of the Society of Biological Psychiatry (virtual). Presented by Cataldo.

- Akman, E., Cataldo, A. M., Basta, J., Scheuer, L., Germine, L. T., & Dillon, D. G. (2020, January). Depressive symptoms reduce the positive recall advantage. Poster session presented at McLean Research Day, Belmont, MA. Presented by Akman.
- Cataldo, A. M., & Cohen, A. L. (2019, November). Modelling preference reversals in context effects over time. Poster session presented at the annual meeting of the Psychonomic Society, Montreal, Quebec. Presented by Cataldo.
- Cohen, A. L., Starns, J. J., Rotello, C. M., & Cataldo, A. M. (2019, November). Estimating the proportion of guilty suspects in lineups using signal-detection models. Talk given at the annual meeting of the Psychonomic Society, Montreal, Quebec. Presented by Cohen.
- Cataldo, A. M., & Cohen, A. L. (2018, November). Context effects and the comparison process. Talk given at the annual meeting of the Psychonomic Society, New Orleans, LA. Presented by Cohen (per conference rules).
- Starns, J.J., Rotello, C.M., & Cataldo, A. M. (2018, May). Validity of researcher inference in recognition memory: A blinded validation study. Talk given at the annual Context and Episodic Memory Symposium, Philadelphia, PA. Presented by Starns.
- Carr, A., Jones, T., Cataldo, A.M., Hadley, H., Arnold, E., Tanaka, J., Curran, T. & Scott, L.S. (2018, May). Changes in Visual Scanning Strategies Accompany the Acquisition of Perceptual Expertise. Poster session presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL. Presented by Carr.
- Cataldo, A. M. & Cohen, A. L. (2017, November). Reversing the similarity effect: The influence of presentation format. Talk given at the annual meeting of the Psychonomic Society, Vancouver, BC. Presented by Cohen (per conference rules).
- Cataldo, A. M. & Cohen, A. L. (2017, November). Applications of a Bayesian hierarchical signal detection model to emotion research. Poster session presented at the annual meeting of the Psychonomic Society, Vancouver, BC. Presented by Cataldo.
- Carr, A., Jones, T., Cataldo, A.M., Hadley, H., Arnold, E., Tanaka, J., Curran, T. & Scott, L.S. (May 2017). A dissociation between visual strategy use and accuracy after perceptual expertise training. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL. Presented by Carr.
- Jones, T., Cataldo, A.M., Hadley, H., Arnold, E., Tanaka, J., Curran, T. & Scott, L.S. (May 2017). Subordinate-level training with novel objects differentially impacts neural and behavioral processing. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL. Presented by Jones.

- Cataldo, A. M. & Cohen, A. L. (2017, January). Refining the emotion manipulation check. Talk given at the annual meeting of the Society for Personality and Social Psychology, San Antonio, TX. Presented by Cataldo.
- Cataldo, A. M. & Cohen, A. L. (2016, November). The influence of emotion and framing on preferential choice. Poster session presented at the annual meeting of the Psychonomic Society, Boston, MA. Presented by Cataldo.
- Hadley, H., Arnold, E., Cataldo, A.M., Tanaka, J., Curran, T., Scott, L.S. (2016, May). The importance of color and spatial frequency information after laboratory-trained perceptual expertise. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL. Presented by Hadley.
- Zimmermann, R., Wolff, J., Simon, V., Cataldo, A., Spirito, A., Prinstein, M. (2012, November). Overt and relational aggression and deviant peer affiliation: Risk factors for substance use among adolescent females. Poster session presented at the annual meeting of the Association for Behavioral and Cognitive Therapy, Washington, DC. Presented by Cataldo.
- Becker, S. J., Nargiso, J. E., Wolff, J.C., Uhl, K.M., Cataldo, A., Simon, V., Spirito, A., & Prinstein, M.J. (2011, August). Temporal relationship between substance use and delinquent behavior among young psychiatrically hospitalized adolescents. Poster session presented at the annual meeting of the European Association for Behavioral and Cognitive Therapy, Reykjavik, Iceland. Presented by Wolff.
- Cataldo, A., Ongur, D., & Chen, Y. (2010, March). Seeing faces, reading minds: The relationship between deficits in theory of mind and facial identity discrimination among schizophrenic patients. Poster session presented at the Harvard Psychiatry Research Day, Cambridge, MA. Presented by Cataldo.
- Cataldo, A., Cohen, A., & Dasgupta, N. (2009, November). The effect of mood on pattern perception: A signal detection analysis. Poster session presented at the annual meeting of the Psychonomic Society, Boston, MA. Presented by Cohen.

Research Experience

Jan 2018 – Jul 2019

Research Assistant

University of Massachusetts, Amherst MA
 Eyewitness Memory Project
 Dr. Starns, Dr. Rotello, Dr. Cohen

Jan 2017 – Jul 2019

Research Assistant

University of Massachusetts, Amherst MA
 Measuring Memory Project
 Dr. Jeffrey Starns, Dr. Caren Rotello

Jan 2015 – May 2019	Statistical & Methodological Consultant University of Massachusetts, Amherst MA Institute for Social Science Research
May 2015 – Aug 2016	Research Assistant University of Massachusetts, Amherst MA Brain, Cognition, & Development Lab Dr. Lisa Scott
Nov 2010 – Jul 2013	Research Assistant Brown University, Providence RI Bradley/Hasbro Children’s Research Center Dr. Anthony Spirito, Dr. Jennifer Wolff
May 2009 – Oct 2010	Research Assistant McLean Hospital, Belmont MA Visual Psychophysiology Laboratory Dr. Yue Chen
May 2008 – Aug 2008	Research Assistant UMass Medical School, Provincetown MA Project Apollo Dr. Edward Boyer
Teaching Experience	
Summer 2019	ISSR Workshop Instructor University of Massachusetts, Amherst MA Getting Started with Bayesian Statistics
Summer 2017	Instructor University of Massachusetts, Amherst MA Statistics in Psychology (1 session)
Sept 2013 – May 2019	Teaching Assistant University of Massachusetts, Amherst MA Methods of Inquiry in Psychology (2 semesters) Statistics in Psychology (3 semesters) Integrative Experience in Psychology (1 semester) Social Psychology (2 semesters) Graduate Statistics (2 semesters)
Jan 2015 – May 2019	ISSR Short Course Instructor University of Massachusetts, Amherst MA

Introduction to R
Data Manipulation in R
Creating Reports and Presentation Slides in R
Computing Bayes Factors in R
De-Mystifying Bayesian Statistics

Sept 2014 – May 2015

Graduate Mentor

University of Massachusetts, Amherst MA
STEM Ambassadors Program

Service

Sept 2015 – May 2019

Union Steward

Graduate Employee Organization (UAW 2322)

Sept 2015 – May 2019

Graduate Steering Committee

UMass Cognitive Science Initiative

Ad Hoc Journal Reviews

Ageing & Society

Cognition

Emotion

Human Brain Mapping

Judgment and Decision Making

Journal of Experimental Psychology: Applied

Journal of Experimental Psychology: Learning, Memory, and Cognition

Journal of Memory and Language

Mathematical Psychology

Psychonomic Bulletin & Review

PLOS ONE

Scientific Reports

Social Neuroscience