

Curriculum Vita

Andrew L. Cohen

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Positions

2021-present Professor of psychology, University of Massachusetts, Amherst.
2010-2021 Associate professor of psychology, University of Massachusetts, Amherst.
2010-2011 Visiting associate professor, Duke University, Durham, NC.
2004-2010 Assistant professor of psychology, University of Massachusetts, Amherst.

Education

2002-2004 Postdoctoral researcher, Indiana University, Bloomington, IN (Richard Shiffrin, advisor).
1996-2002 Ph.D., Indiana University, Bloomington, IN (Cognitive psychology and cognitive science, Robert Nosofsky, advisor).
1993-1996 M.Sc., Texas A&M University, College Station, TX (Computer science, specializing in artificial intelligence, John Yen, advisor).
1989-1993 B.A., Stanford University, Stanford, CA. (Psychology with honors, cognitive sciences track).

Sponsored Activity

External

- 2019-current NSF: IUSE, *Effect of visualization on students' understanding of probability concepts in an innovative learning module*, Total costs \$300,000. (Co-PI, PI Starns)
- 2019-2020 NSF RAISE: C-Accel Pilot – Track B1. *A framework for diagnosis, recommendation, and training in continuous workforce development*, Total costs \$838,701. (SP, PI Woolf)
- 2015-2017 US Army Research Institute for the Behavioral & Social Sciences, *Exploring the use of visual features and recognition strategies in perceptual expertise*, Total costs \$1,727,064. (Co-PI, PI Scott) [Added after grant awarded to manage UMass efforts in Scott's absence]
- 2012-2014 Office of Naval Research SBIR Program, *Microgames for the Acquisition and Rehearsal of Cognitive Schemas for Perception (MARCS) Phase II*, Total costs \$27,000. (PI, under subcontract from Charles River Analytics, Inc.)
- 2011-2013 Office of Naval Research SBIR Program, *Microgames for the Acquisition and Rehearsal of Cognitive Schemas for Perception (MARCS) Phase I*, Total costs \$14,999. (PI, under subcontract from Charles River Analytics, Inc.)
- 2010-2012 Institute for Research on Gambling Disorders Seed Grant, *Patterns of Information Processing in Risky Decision Making*, Total costs \$33,750. \$4,000 total costs under subcontract to UMass. (Co-I, PI Huettel)
- 2006-2009 National Science Foundation (NSF SES 0631602), *Inducing features from visual noise using statistical machine learning techniques*, 11/15/06-1/31/10, Total costs \$149,980. (PI)
- 2005-2006 Department of Interior Grant (NBCH1050007), *Learning to integrate knowledge structures*, 3/15/05-3/14/06, Total costs \$432,820. (Co-PI, with Cave & Rotello)
- 1997-2000 Jacob K. Javits Fellow.

Internal

- 2019-current UMass Diversity Seed Grant, *Reforming math education to promote STEM success for a more diverse range of students: Tests of a visualization method for probabilistic reasoning*, \$9,680 (Co-PI).
- 2010-2011 MRI-MRS Pilot Research Grant, *Control Signals for Conceptual Switches*, \$4,275 (PI)
- 2008-2009 Faculty Research Grant, *Control Signals for Conceptual Switches*, \$7,200 (PI)

Honors and Awards

- 2020 Best paper in *Cognitive Research: Principles and Implications* for Cohen, et al for 2020.
- 2008 Mathematical Association of America's Lester R. Ford award for articles of expository excellence for Leise & Cohen (2007).
- 2003 Irving J. Saltzman Award for Outstanding Graduate Achievement, Indiana University.

Current Research Topics

Judgment and decision-making, reasoning, concepts and categorization, computational modeling, and statistical methods.

Publications

* = co-authored with a graduate student under my supervision

+ = co-authored with a post-doc under my supervision

= co-authored with an undergraduate student under my supervision

Journal Articles

- Starns, J.J., **Cohen, A.L.**, & Rotello, C.M. (in press). A Complete Method for Assessing the Effectiveness of Eyewitness Identification Procedures: Expected Information Gain. *Psychological Review*.
- Cohen, A.L.**, Starns, J.J. & Rotello, C.M. (2021). sdtlu: An R package for the signal detection analysis of eyewitness lineup data. *Behav Res*, 53, 278–300 (2021). <https://doi.org/10.3758/s13428-020-01402-7>
- *Cataldo, A.M. & **Cohen, A.L.** Modeling Preference Reversals in Context Effects over Time. *Comput Brain Behav*, 4, 101–123 (2021). <https://doi.org/10.1007/s42113-020-00078-8>
- *Cataldo, A.M. & **Cohen, A.L.** (2021). The influence of within-alternative and within-dimension similarity on context effects. *Decision*, 8(3), 202–226. <https://doi.org/10.1037/dec0000148>
- *Starns, J.J., **Cohen, A.L.**, Vargas, J.M., and Lougee-Rodriguez, W.F. (2021). Strategies for using a spatial method to promote active learning of probability concepts. *Journal of Statistics and Data Science Education*, 29:1, 39-53. <https://doi:10.1080/10691898.2020.1856014>.
- *Cataldo, A.M. & **Cohen, A.L.** (2020). Framing context effects with reference points. *Cognition*, 203, 104334. <https://doi.org/10.1016/j.cognition.2020.104334>
- ***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, 21. <https://doi.org/10.1186/s41235-020-00219-4>. [Best paper CRPI for 2020].
- *Cataldo, A. & **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. <https://doi.org/10.3758/s13423-018-1531-9>.
- #Starns, J., **Cohen, A.L.**, Bosco, C., & Hirst, J. (2019). A visualization technique for teaching Bayesian reasoning. *Applied cognitive psychology*, 33 (2), 234-251. <https://doi.org/10.1002/acp.3470>.
- Staub, A., Dodge, S., & **Cohen, A.L.** (2019). Failure to detect function word repetitions and omissions in reading: Are eye movements to blame? *Psychonomic bulletin & review*, 26 (1), 1, 340-346. <https://doi.org/10.3758/s13423-018-1492-z>.
- *Cataldo, A.M., & **Cohen, A.L.** (2018). Reversing the similarity effect: The effect of presentation format. *Cognition*, 175, 141-156. <https://doi.org/10.1016/j.cognition.2018.02.003>.
- Olson, A., Scherer, D.G., & **Cohen, A.L.** (2017). Decision-making skills of emerging adults aging out of foster care. *Children and Youth Services Review*, 82, 81-86. <https://doi.org/10.1016/j.chilyouth.2017.09.023>.
- Cohen, A.L.**, Kang, N., & Leise, T.L. (2017). Multi-attribute, multi-alternative models of choice: Choice, reaction time, and process tracing. *Cognitive psychology*, 98, 45-72. <https://doi.org/10.1016/j.cogpsych.2017.08.001>.
- #**Cohen, A.**, Sidlowski, S., & Staub, A. (2017). Beliefs and Bayesian Reasoning. *Psychonomic Bulletin and Review*, 24 (3), 972–978. <https://doi.org/10.3758/s13423-016-1161-z>.
- *Nicholas, C. & **Cohen, A.L.** (2016). The effect of interruption on the decision-making process. *Judgment and Decision Making*, 11, 611-626.
- *Cataldo, A. & **Cohen, A.L.** (2015). The effect of emotional state on visual detection: A signal detection analysis. *Emotion*, 15, 846-853. <https://doi.org/10.1037/emo0000091>.
- Hotaling, J., **Cohen, A.L.**, Shiffrin, R., & Busemeyer, J. (2015). The Dilution Effect and Information

Integration in Perceptual Decision Making. *PLOS One* 10(9): e0138481.
<https://doi.org/10.1371/journal.pone.0138481>.

- Cohen, A.L.** & Staub, A. (2015). Within-subject consistency and between-subject variability in Bayesian reasoning strategies. *Cognitive Psychology*, 81, 26-47. <https://doi.org/10.1016/j.cogpsych.2015.08.001>.
- Kwak, Y., Payne, J., **Cohen, A.L.**, Huettel, S. (2015). The Rational Adolescent: Strategic Information Processing during Decision Making Revealed by Eye Tracking. *Cognitive Development*, 36, 20-30. <https://dx.doi.org/10.1016%2Fj.cogdev.2015.08.001>.
- Staub, A., Grant, M., Astheimer, L., & **Cohen, A.L.** (2015). The influence of cloze probability and item constraint on cloze task response time. *Journal of Memory and Language*, 82, 1-17. <https://doi.org/10.1016/j.jml.2015.02.004>.
- ***Cohen, A.L.**, Rotello, C.M., & Fiorenzo, L.M. (2014). Memory for license plates. *Psychology, Public Policy, and Law*, 20, 347-360. <https://psycnet.apa.org/doi/10.1037/law0000029>.
- *Zivot, M. & **Cohen, A.L.** (2014). Modeling the Roles of Category and Feature Information in Inference. *Experimental Psychology*, 61, 285-300. <https://doi.org/10.1027/1618-3169/a000247>.
- Cohen, A.L.** & Staub, A. (2014). Online processing of novel noun-noun compounds: Eye movement evidence. *QJEP*, 67, 147-165. <https://doi.org/10.1080%2F17470218.2013.796398>.
- *Zivot, M., **Cohen, A.L.**, Kapucu, A. (2013). Modeling the Effect of Mood on Dimensional Attention during Categorization. *Emotion*, 13, 703-710. <https://psycnet.apa.org/doi/10.1037/a0031987>.
- Cohen, A.L.** (2013). Software for the automatic correction of recorded eye fixation locations in reading experiments. *Behavior Research Methods*, 45, 679-683. <https://doi.org/10.3758/s13428-012-0280-3>.
- Hotaling, J., **Cohen, A.L.**, Busemeyer, J., Shiffrin, R. (2013). Dilution effects in perceptual information integration. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 2572-2577). Austin, TX: Cognitive Science Society.
- Cohen, A.L.**, Leise, T., Welsh, D. (2012). Bayesian statistical analysis of circadian oscillations in fibroblasts. *Journal of Theoretical Biology*, 314, 182-191. <https://doi.org/10.1016/j.jtbi.2012.08.038>.
- +**Cohen, A.L.** & Ross, M. (2009). Exploring mass perception with Markov chain Monte Carlo. *Journal of Experimental Psychology: Human Perception and Performance*, 35, 1833-1844. <https://doi.org/10.1037/a0016799>.
- Lafond, D., Lacouture, Y., & **Cohen, A.L.** (2009). Decision tree models of categorization response times, choice proportions, and typicality judgments. *Psychological Review*, 116, 833-855. <https://psycnet.apa.org/doi/10.1037/a0017188>.
- +Ross, M. & **Cohen, A.L.** (2009). Using graphical models to infer multiple visual classification features. *Journal of Vision*, 9, 1-24. <https://doi.org/10.1167/9.3.23>.
- Cohen, A.L.**, Rotello, C., & Macmillan, N. (2008). Evaluating models of remember-know judgments. *Psychonomic Bulletin & Review*, 15, 906-926. <https://doi.org/10.3758/PBR.15.5.906>.
- Cohen, A.L.**, Sanborn, A., & Shiffrin, R. (2008). Model evaluation using grouped or individual data. *Psychonomic Bulletin & Review*, 15, 692-712. <https://doi.org/10.3758/pbr.15.4.692>.
- +Ross, M. & **Cohen, A.L.** (2008). GRIFT: A graphical model for inferring visual classification features from human data. In J. Platt, D. Koller, Y. Singer, & S. Roweis (Eds.), *Advances in Neural Information Processing Systems*, 20 (pp. 1217-1224). Cambridge, MA: MIT Press. [Refereed annual proceedings, 22% acceptance rate.]
- +**Cohen, A.L.**, Shiffrin, R., Gold, J., Ross, D., & Ross, M. (2007). Inducing features from visual noise. *Journal of Vision*, 7, 1-14. <https://doi.org/10.1167/7.8.15>.
- Leise, T. & **Cohen, A.L.** (2007). Coupled nonlinear oscillators at our fingertips. *American Mathematical Monthly*, 114, 14-28. <https://doi.org/10.1080/00029890.2007.11920388>. [10% acceptance rate; MAA's Lester R. Ford Award.]

- Gold, J., **Cohen, A.L.**, & Shiffrin, R. (2006). Visual noise reveals category representations. *Psychonomic Bulletin & Review*, 13, 649-655. <https://doi.org/10.3758/BF03193976>.
- Cohen, A.L.** (2006). Contributions of invariants, heuristics, and exemplars to the visual perception of relative mass. *Journal of Experimental Psychology: Human Perception and Performance*, 32, 574-598. <https://doi.org/10.1037/0096-1523.32.3.574>.
- Gold, J., **Cohen, A.L.**, & Shiffrin, R. (2004). Classification image weights can discriminate between prototype and exemplar category representations [Abstract]. *Journal of Vision*, 4, 661a. <https://doi.org/10.1167/4.8.661>.
- Zaki, S., Nosofsky, R., Stanton, R., & **Cohen, A.L.** (2003). Prototype and Exemplar Accounts of Category Learning and Attention Allocation: A Reassessment. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 29, 1160-1173. <https://doi.org/10.1037/0278-7393.29.6.1160>.
- Cohen, A.L.** & Nosofsky, R. (2003). An Extension of the Exemplar-Based Random Walk Model to Separable-Dimension Stimuli. *Journal of Mathematical Psychology*, 47, 150-165. [https://doi.org/10.1016/S0022-2496\(02\)00031-7](https://doi.org/10.1016/S0022-2496(02)00031-7).
- Cohen, A.L.**, Nosofsky, R., & Zaki, S. (2001). Category variability, exemplar similarity, and perceptual classification. *Memory and Cognition*, 26, 1165-1175. <https://doi.org/10.3758/BF03206386>.
- Cohen, A.L.** & Nosofsky, R. (2000). An exemplar-retrieval model of speeded same-different judgments. *Journal of Experimental Psychology: Human Perception and Performance*, 26, 1549-1569. <https://doi.apa.org/doi/10.1037/0096-1523.26.5.1549>.

Book Chapters

- *+Cave, K., **Cohen, A.L.**, Rotello, C., McCaffrey, A., Ross, M., Zeng, M., Zivot, M., Li, X., & Evans, K. (2008). Using eye movements to understand complex visual comparisons. In K. Rayner, D. Shen, X. Bai, and G. Yan (Eds.), *Cognitive and cultural influences on eye movements* (pp. 141-156). Tianjin, China: Tianjin People's Publishing House/Psychology Press.
- Tversky, B., Kim, J., & **Cohen, A.L.** (1999). Mental models of spatial relations and transformations from language. In G. Rickheit and C. Habel (Eds.), *Mental models in discourse processing and reasoning: Advances in psychology* (pp. 239-258). Amsterdam, Netherlands: Elsevier Science Publishers.

Manuscripts Submitted for Publication or in Preparation

- Dixon-Gordon, K.L., Waite, E.E., Ammerman, B., Haliczzer, L.A., Boudreaux, E., Rathlev, N., **Cohen, A.L.** (submitted). Responses to gain and loss: Links to suicide risk. *Journal of Psychiatric Research*.

Conference/Workshop Organization

- Getting Started with Bayesian Statistics. (2020, June 15-17). ISSR Methodology Workshop. UMass, Amherst, MA. (Co-organized with J. Starns & J. Gross.)

Statistical, computational, and psychological techniques for inferring features from stimulus classification. (2004, December). Neural Information Processing Systems workshops. Whistler, BC. (Co-organized with R. Shiffrin, J. Gold, and F. Cutzu.)

Conference Presentations

- Starns, J.J., **Cohen, A.L.**, & Rotello, C.M. (2021, July). Comparing eyewitness identification procedures with information-theory measures. Talk presented at the annual meeting of the Mathematical Psychology conference. [Virtual due to COVID-19].
- #Bisbee, C. & **Cohen, A.L.** (2021, April). Tipping the Scales: The Psychology of Restaurant Tipping in the Digital Age. Poster presented at the Annual Massachusetts Undergraduate Research Conference. [Virtual due to COVID-19].
- *Vargas, J., Starns, J., **Cohen, A.L.** (2020, November). Effect of Visualization on Students' Understanding of Probability Concepts in an Innovative Learning Module.. Poster presented at the 61st annual meeting of the Psychonomic Society. [Virtual due to COVID-19].
- *Hoover, J., **Cohen, A.L.**, Rotello, C. (2020, November). An Application of Optimal Stopping Theory to Eyewitness Identification Decisions in Sequential Lineups. Poster presented at the 61st annual meeting of the Psychonomic Society. [Virtual due to COVID-19].
- Woolf, B., Ghosh, Lan, A., Zilberstein, S., Juravich, T., **Cohen, A.L.**, & Geho, O. (2020). AI-Enabled Training in Manufacturing Workforce Development. *Proceedings from the 2020 AAAI Spring Symposium on AI and Manufacturing*. Palo Alto, CA. [Virtual and delayed due to COVID-19].
- Miura, S., **Cohen, A.L.**, & Zilberstein, S. (2021, August). Maximizing legibility in stochastic environments. In 2021 30th IEEE International Conference on Robot & Human Interactive Communication (RO-MAN) (pp. 1053-1059). IEEE.
- Woolf, B., Ghosh, A., Lan, A., Zilberstein, S., Juravich, T., **Cohen, A.L.**, & Geho, O. (2020, March). AI-Enabled Training in Manufacturing Workforce Development. Talk presented at AI and Manufacturing - AAAI Virtual Spring Symposium Series 2020. Palo Alto, CA. [Virtual due to COVID-19].
- ***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 presented at the Annual meeting of the Psychonomic Society. Montreal, CA.
- Starns, J.J., **Cohen, A.L.**, Bosco, C., Lougee Rodriguez, W., Vazquez, J. (2019, November). Spatial Representations of Probability Support Active Learning of Bayes Theorem. Talk presented at the Annual Meeting of the Psychonomic Society. Montreal, CA.
- *Cataldo, A.M. & **Cohen, A.L.** (2019, November). Modeling Preference Reversals in Context Effects over Time. Poster presented at the Annual Meeting of the Psychonomic Society. Montreal, CA.
- *Cataldo, A. & **Cohen, A.L.** (2018, November). Context Effects and the Comparison Process. Talk presented at the 59th annual meeting of the Psychonomic Society. New Orleans, LA.
- #Starns, J., **Cohen, A.L.**, Bosco, C., & Hirst, J. (2018, November). A Visual Method for Bayesian Reasoning. Talk presented at the 59th annual meeting of the Psychonomic Society. New Orleans, LA.
- #Chaturvedi, A. & **Cohen, A.L.** (2019, April 26). Context Effects and Categorization. Poster presented at the annual Massachusetts Undergraduate Research Conference. Amherst, MA.
- #Vargas, J., **Cohen, A.L.**, & Starns, J. (2019, April). Everyday uncertainties: An assessment of Bayesian reasoning using semantic terms. Poster presented at the annual Massachusetts Undergraduate Research Conference. Amherst, MA.
- #Philips, J. **Cohen, A.L.**, & Rotello, C. (2019, April). Effects of similarity on decision making in police lineups. Poster presented at the annual Massachusetts Undergraduate Research Conference. Amherst, MA.

- *Cataldo, A. & **Cohen, A.L.**, (2017, November). Reversing the Similarity Effect: The Influence of Presentation Format. Talk presented at the annual meeting of the Psychonomics Society, Vancouver, BA, CA. Talk presented by Cohen.
- *Cataldo, A. & **Cohen, A.L.** (2017, November) Applications of a Bayesian Hierarchical Signal Detection Model to Emotion Research. Poster presented at the annual meeting of the Psychonomics Society, Vancouver, BC, CA.
- Staub, A., Dodge, S., & **Cohen, A.L.** (2018, May). Eye Movements When Failing to Notice Function Word Repetition and Omissions. Talk presented at the meeting of Psychonomics International, Amsterdam.
- #Bosco, C., Nadler, J., Starns, J., & **Cohen, A.L.** (2017, April). A Visualization Technique for Bayesian Reasoning. Poster presented at the Annual Massachusetts Statewide Undergraduate Research Conference. April 28. University of Massachusetts, Amherst, MA.
- #Winslow, E. & **Cohen, A.L.** (2017, April). "If Only!": The Effect of Missed Opportunities on Gambling. Poster presented at the Annual Massachusetts Statewide Undergraduate Research Conference. April 28. University of Massachusetts, Amherst, MA.
- *Cataldo, A. & **Cohen, A.L.** (2017, January). Refining the Emotion Manipulation Check. Poster presented at the annual meeting of the Society for Personality and Social Psychology. January 18-22. San Antonio, TX.
- *Cataldo, A., **Cohen, A.L.**, Isbell, L., & Starns, J. (2016, November). Talk presented at the Influence of Emotion and Framing on Preferential Choice. The Annual Meeting of the Psychonomic Society. November 17-20. Boston, MA.
- Rysling, A., King, J., Staub, A., **Cohen, A.L.**, Starns, J. (2016, November). Lexical knowledge is available, but not always used, very early. Talk presented at the Annual Meeting of the Psychonomic Society. November 17-20. Boston, MA.
- Rysling, A., King, J., Staub, A., **Cohen, A.L.**, Starns, J. (2016, July). Lexical knowledge is available, but not always used, very early. LabPhon15. Talk presented at the Association for Laboratory Phonology. July 13-16. Cornell University, Ithaca, NY.
- #Sidlowski, S., **Cohen, A.L.**, & Staub, A. (2016, April). The effects of belief bias on probabilistic reasoning. Poster presented at the 22nd Annual Massachusetts Statewide Undergraduate Research Conference, Univ. of Mass, Amherst, MA.
- ##*Valler, M., Nicholas, C., & **Cohen, A.L.** (2016, April). The effects of interruptions on cognitive processing in a complex gambling task. Poster presented at the 22nd Annual Massachusetts Statewide Undergraduate Research Conference, Univ. of Mass, Amherst, MA.
- #Neal, H., & **Cohen, A.L.** (2016, April). Emotion and the framing effect. Poster presented at the 22nd Annual Massachusetts Statewide Undergraduate Research Conference, Univ. of Mass, Amherst, MA.
- #Olson, A., Scherer, D., & **Cohen, A.L.** (2016, April). Assessing decision-making skills after foster care. Poster presented at the 22nd Annual Massachusetts Statewide Undergraduate Research Conference, Univ. of Mass, Amherst, MA.
- ##*Valler, M., Nicholas, C., & **Cohen, A.L.** (2016, March). The effects of interruptions on cognitive processing in a complex gambling task. Poster presented at the meeting of the Eastern Psychological Association, March 4, 2016, New York, NY.
- #Olson, A., Scherer, D., **Cohen, A.L.** (2016, March). Assessing decision making skills after foster care. Poster presented at the 29th Annual research and policy conference on child, adolescent, and young adult behavioral health. March 13-16. Tampa, FL.
- Kingston, J., Rysling, A., Staub, A., **Cohen, A.L.**, and Starns, J. (2016, February). When Do Words Influence Perception? Converging Evidence that the Ganong Effect is Early. Talk presented at the MIT Ling Lunch.
- Staub, A., Grant, M., Astheimer, L., & **Cohen, A.L.** (2015, March). What does cloze probability measure? Response time and modeling evidence. Poster presented at the 28th CUNY Conference on Human

Sentence Processing, University of Southern California.

- #**Cohen, A.L.**, Staub, A., & Hendrick, J. (2014, November). Information Use in Bayesian Reasoning. Talk presented at the Annual Meeting of the Psychonomic Society, Long Beach, CA.
- *Pagnier, G., McClure, J., Richardson, H., & **Cohen, A.L.** (2014, September). Personality and arousal while gambling. Poster presented at the NCRG Conference on Gambling and Addiction, Las Vegas, NV.
- Rysling, A., Kingston, J., Staub, A., **Cohen, A.L.**, Starns, J. (2014, August). Early Ganong Effects. Proceedings of the 18th International Congress of Phonetic Sciences, Glasgow, Scotland.
- #Wang, Y., **Cohen, A.L.**, & Li, X. (2014, May). Cultural Differences in Decision Making for the Self and Other. Talk presented at the 6th Chinese International Conference on Eye Movements, Chinese Academy of Sciences, Beijing.
- *Fiorenza, L. & **Cohen, A.L.** (2013, November). The Role of Format, Salience, Validity, and Discriminability in Judgment. Poster presented at the Annual Meeting of the Psychonomic Society, Toronto, Canada.
- Youngbin, K., **Cohen, A.L.**, Payne, J. Huettel, S. (2013, November). The rational adolescent: Evidence from strategic behavior in information processing revealed by eye tracking. Talk presented at the Annual Meeting of the Psychonomic Society, Toronto, Canada. [Select-speaker award.]
- Collins, W., Sawh, A., Orsini, R., **Cohen, A.L.** (2013, November). Source memory recognition is dependent upon time of learning. Poster presented at the Annual Meeting of the Psychonomic Society, Toronto, Canada.
- Staub, A., Grant, M., Astheimer, L., **Cohen, A.L.** (2012, September). Predicting the next word: Data and model from a speeded cloze task. Talk presented at the annual meeting of Psychonomics Society, Minneapolis, MN.
- Staub, A., Grant, M., Astheimer, L., **Cohen, A.L.** (2012, September). Predicting the next word: Data and model from a speeded cloze task. Talk presented at the annual meeting of Architectures and Mechanisms for Language Processing, Riva del Garda, Italy.
- *Hotaling, J., **Cohen, A.L.**, Busemeyer, J., & Shiffrin, R. (2010, November). The dilution effect in perceptual decision making. Talk presented at the Annual Meeting of the Society for Judgment and Decision Making, Saint Louis, Missouri.
- *Hotaling, J., **Cohen, A.L.**, Busemeyer, J., & Shiffrin, R. (2010, August). Models of information integration in perceptual decision making. Talk presented at the Annual Meeting of the Society for Mathematical Psychology, Portland, Oregon.
- *Hotaling, J., **Cohen, A.L.**, Busemeyer, J., & Shiffrin, R. (2010, August). Models of information integration in perceptual decision making. Poster presented at the Annual Meeting of the Cognitive Science Society, Portland, Oregon.
- *Cataldo, A., **Cohen, A.L.**, & Dasgupta, N. (2009, November). The effect of mood on pattern perception: A signal detection analysis. Poster presented at the 50th annual meeting of the Psychonomic Society. Boston, MA.
- *Zivot, M. & **Cohen, A.L.** (2009, November). Modeling the roles of category and feature information in inference. Poster presented at the 50th annual meeting of the Psychonomic Society. Boston, MA.
- *Hotaling, J., **Cohen, A.L.**, Busemeyer, J., & Shiffrin, R., (2009, August). Information integration in perceptual decision-making. Poster session presented at the annual meeting of the Society for Mathematical Psychology, Amsterdam, Netherlands.
- *Hotaling, J., **Cohen, A.L.**, Busemeyer, J., & Shiffrin, R., (2009, July). Information integration in perceptual decision-making. Poster session presented at the annual meeting of the Annual Summer Interdisciplinary Conference, Sarre, Valle d'Aosta, Italy.
- *#Burch, E., McCaffrey, A., & **Cohen, A.L.** (2009, May). Top-down control signals and ambiguous figures. Poster presented at the annual meeting of the Massachusetts Statewide Undergraduate Research

Conference, Amherst, MA.

#Richard, K., McCaffrey, A., & **Cohen, A.L.** (2009, May). The role of sensorimotor cortices in problem solving. Poster presented at the annual meeting of the Massachusetts Statewide Undergraduate Research Conference, Amherst, MA.

***Cohen, A.L.**, Busemeyer, J., Shiffrin, R., & Hotaling, J. (2008, November). Information integration in perceptual decision-making. Poster session presented at the annual meeting of the Psychonomic Society, Chicago, IL.

*Hotaling, J., **Cohen, A.L.**, Busemeyer, J., & Shiffrin, R. (2008, July). Information integration in perceptual decision making. Poster session presented at the annual meeting of the Society for Mathematical Psychology, Washington D.C.

Cohen, A.L., Rotello, C., & Macmillan, N. (2008, January). Mimicry in models of remember-know judgments. Talk presented at the Context and Episodic Memory Symposium, Tampa, FL. Presented by Rotello.

+Ross, M. & **Cohen, A.L.** (2007, December). GRIFT: A graphical model for inferring visual classification features from human data. Poster session presented at the annual meeting of the Neural Information Processing Systems, Vancouver, B.C., Canada.

Cohen, A.L., Rotello, C., & Macmillan, N. (2007, November). Mimicry in models of remember-know judgments. Poster session presented at the annual meeting of the Psychonomic Society, Long Beach, CA.

+**Cohen, A.L.** & Ross, M. (2007, June). Exploring mass perception with psychological MCMC. Talk presented at the annual meeting of the Annual Summer Interdisciplinary Conference, Kalymnos, Greece.

+Ross, M. & **Cohen, A. L.**(2007, June). Modeling visual classification with Bayesian networks. Poster session presented at the annual meeting of the Annual Summer Interdisciplinary Conference, Kalymnos, Greece.

Cohen, A.L., Sanborn, A., & Shiffrin, R. (2007, June). Model selection for individuals when data is limited. Talk presented at the annual meeting of the Annual Summer Interdisciplinary Conference, Kalymnos, Greece.

+**Cohen, A.L.** & Ross, M. (2006, August). Inducing multiple independent classification templates from stochastic stimuli. Talk presented at the annual meeting of the Annual Summer Interdisciplinary Conference, Åndalsnes, Norway.

*+Cave, K., **Cohen, A.L.**, Rotello, C., McCaffrey, A., Zeng, M., Li, X., Zivot, M., Chang, K., & Ross, M. (2006, June). Using eye movements to understand complex visual comparisons. Talk presented at the China International Conference on Eye Movements, Tianjin, P.R.China.

Cohen, A.L., Shiffrin, R., Gold, J., & Ross, D. (2005, August). Inducing Features from Visual Noise. Talk presented at the annual meeting of the Society for Mathematical Psychology, Memphis, TN.

Cohen, A.L., Shiffrin, R., Gold, J., & Ross, D. (2005, July). Inducing features from visual noise. Talk presented at the annual meeting of the Annual Summer Interdisciplinary Conference, Briancon, France.

Cohen, A.L. (2005, May). Information integration: Modeling stimulus differences. Talk presented at the Office of Naval Research Workshop on Attention, Perception and Modeling for Complex Display, Washington DC.

Cohen, A.L., Ross, D., Gold, J., Cutzu, F., Yu, C., & Shiffrin, R. (2004, December). Features from noise or noise from features. Talk presented at the annual meeting of the Neural Information Processing Systems workshops, Whistler, BC.

Cutzu, F., Dhua, A., Gold, J., Yu, C., **Cohen, A.L.**, & Shiffrin, R. (2004, December). Inferring image templates from classification decisions. Talk presented at the annual meeting of the Neural Information Processing Systems workshops, Whistler, BC.

Cohen, A.L., Sanborn, A., & Shiffrin, R. (2004, August). To average or not to average: A comparison across simulation techniques. Talk presented at the annual meeting of the Society for Mathematical Psychology,

model selection symposium, Columbus, OH.

- Cohen, A.L.**, Busemeyer, J., & Shiffrin, R. (2004, July). Dual modes of information integration. Talk presented at the annual meeting of the Annual Summer Interdisciplinary Conference, Cavelese, Italy.
- Gold, J., **Cohen, A.L.**, & Shiffrin, R. (2004, July). Classification image weights can discriminate between prototype and exemplar category representations. Poster session presented at the annual meeting of the Annual Summer Interdisciplinary Conference, Cavalese, Italy.
- Gold, J., **Cohen, A.L.**, & Shiffrin, R. (2004, May). Classification image weights can discriminate between prototype and exemplar category representations. Talk presented at the annual meeting of the Vision Sciences Society, Sarasota, Florida.
- Stanton, R., Nosofsky, R., **Cohen, A.L.**, & Zaki, S. (2003, July). An Exemplar-Based Random Walk Model of Old-New Recognition. Talk presented at the annual meeting of the Society for Mathematical Psychology, Ogden, Utah.
- Cohen, A.L.** (2002, August). An exemplar-similarity account of the perception of dynamic properties. Talk presented at the annual meeting of the Annual Summer Interdisciplinary Conference, Squamish, BC.
- Cohen, A.L.** (2002, July). An exemplar-similarity account of the perception of dynamic properties. Talk presented at the annual meeting of the Society of Mathematical Psychology, Oxford, OH.
- Roe, R., **Cohen, A.L.**, & Busemeyer, J. (2001, November). Extrapolation in multiple-cue function learning: Critical tests of associative versus rule-based models. Talk presented at the Mini-Mathematical Psychology Conference, West Lafayette, IN.
- Cohen, A.L.**, Sautner, M., & Spencer-Smith, J. (2001, March). EXP: A new system for creating experiments within the Windows environment. Talk presented at the annual meeting of Hoosier Mental Life, Bloomington, IN.
- Cohen, A.L.**, Nosofsky, R., & Zaki, S. (2001, March). Category variability, exemplar similarity, and perceptual classification. Talk presented at the annual meeting of Hoosier Mental Life, Bloomington, IN.
- Roe, R., **Cohen, A.L.**, Barkan, R., & Busemeyer, J. (2001, July). Extrapolation in multiple-cue function learning: Critical tests of associative versus rule-based models. Talk presented at the International Conference on Memory, Valencia, Spain.
- Cohen, A.L.** & Nosofsky, R. (2000, March). An exemplar-retrieval model of speeded same-different judgments. Talk presented at the annual meeting of Hoosier Mental Life, South Bend, IN.
- Cohen, A.L.** & Nosofsky, R. (2000, Aug.). An extension of the exemplar-based random walk model to separable dimension stimuli. Talk presented at the annual meeting of the Society of Mathematical Psychology, Kingston, ON.
- Cohen, A.L.** & Nosofsky, R. (1998, Aug.). An exemplar-retrieval model of speeded same-different judgments. Talk presented at the annual meeting of the Society of Mathematical Psychology, Nashville, TN.
- Nosofsky, R., Alfonso-Reese, L., **Cohen, A.L.**, & Palmeri, T. (1997, Aug.). Tests of an exemplar model for predicting categorization and same-different response times. Talk presented at the annual meeting of the Society of Mathematical Psychology, Bloomington, IN.
- Balfour, S., **Cohen, A.L.**, & Smith, S. (1996, May). A connectionist account of incubation in a creativity task. Talk presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Alphabetical within category

Editorial Boards

Journal of Experimental Psychology: General, member (2018-current)

Ad Hoc Journal Reviewer

American Journal of Psychology

Attention, Perception, and Performance

Brain Research

Behavior Research Methods

Cognition

Cognitive Psychology

Cognitive Science

Cognitive Science Society

Conference on Human Factors in Computing Systems

Decision

Developmental Psychology

Emotion

Ethics and Behavior

Frontiers

International Journal of Information Technology and Decision making

Journal of Consumer Behavior

Journal of Experimental Psychology: Applied

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Human Perception and Performance

Journal of Experimental Psychology: Learning, Memory, and Cognition

Journal of Mathematical Psychology

Journal of Memory and Language

Journal of Vision

Management Science

Memory & Cognition

Perception

Proceedings of the National Academy of Sciences

Psychological Methods

Psychological Research

Psychological Review

Psychonomic Bulletin & Review

Quarterly Journal of Experimental Psychology

Social Science Journal

Trends in Cognitive Science

Ad Hoc Grant Reviewer

Alphabetical

Economic & Social Research Council (2006)

NSF (2015, 2016, 2018)

Graduate Student Committees

Alphabetical

Bekkerman, R. (Ph.D., computer science, member, 2007)
Bharadwaj, R. (MS, psychology, member, 2016)
Cannon, E. (Ph.D., psychology, member, 2006)
Cataldo, A., (Ph.D., psychology, chair, 2017-2019)
Cataldo, A. (Comprehensive exam, psychology, chair, 2017)
Cataldo, A. (MS, psychology, chair, 2016)
Conway, S. (Comprehensive exam, psychology, chair, current)
Druck, G. (Ph.D., computer science, member, 2011)
Gazarian, P. (Ph.D., nursing, member, 2008)
Geffner, T. (Synthesis project, computer science, member, 2018)
Fiorenzo, L. (MS, psychology, chair, not completed)
Hadad, D. (Ph.D., philosophy, member, current)
Hoover, J. (MS, psychology, chair, current)
Hoover, J. (Comprehensive exam, psychology, current)
Huang, K-J. (MS, psychology, member, 2021)
Kapucu, A. (Comprehensive exam, psychology, member, 2008)
Katz, D. (Ph.D., computer science, member, 2011)
Kumaran, G. (Ph.D., computer science, member, 2008)
Kumar, S. (Ph.D., management, member, current)
Lee, T. (MS, NSB, member, current)
Lu, C. (Ph.D., management, member, current)
Luippold, B. (Ph.D., management, member, 2009)
Luippold, B. (Comprehensive exam, management, member, 2007)
McCaffrey, A. (MS, psychology, chair, 2008)
McCaffrey, A. (Comprehensive exam, chair, 2009)
McCaffrey, A. (Ph.D., psychology, chair, 2012)
Mackenzi, N. (Ph.D., management, member, 2019)
McManus, M. (MS, psychology, member, 2010)
Miura, S. (Synthesis project, member, 2020)
Monesson, A. (MS, psychology, member, 2009)
Murtagh, S. (Ph.D. computer science, member, not completed?)
Nicholas, C. (Comprehensive exam, IE & OR, member, 2014)
Pagnier, G., (MS, NSB, member, 2015)
Perreault, S. (Comprehensive exam, management, member, 2010)
Planet, N. (MS, psychology, member, 2010)
Rancourt, B. (Ph.D., philosophy, member, 2015)
Riley, T. (Comprehensive exam, management, member, 2007)
Robison, R. (PhD, philosophy, member, 2017)

Rosenbaum, C. (Synthesis project, member, 2016)
Sadil, P. (Comprehensive exam, member, 2018)
Sevilla, L. (Ph.D., computer science, member, 2014)
Sivasubramanian, S. (Ph.D., management, member, current)
Starliper, M. (PhD, accounting, member, 2018)
Staub, A. (Ph.D., psychology, member, 2008)
Stubbs, K. (Ph.D., management, member, 2020)
Tian, Y. (Ph.D., management, member, 2021)
Vargas, J. (MS, psychology, co-chair, current)
Vargas, J. (Comprehensive exam, psychology, chair, current)
Wainberg, J. (Ph.D., management, member, 2010)
Waite, E. (MS, Psych, member, 2021)
Walsh, F. (MS, NSB, member, 2019)
Weber, S. (MM, music, member, 2013)
Whitfield, A. (Ph.D., management, member, current)
Zeng, M. (MS, psychology, member, 2007)
Zivot, M. (MS, psychology, chair, 2008)
Zivot, M. (Comprehensive exam, psychology, chair, 2009)
Zivot, M. (Ph.D., psychology, chair, 2012)

Graduate and Postdoctoral Advisees

Alphabetical

Cataldo, A. (Graduate student, primary advisor, 2013-2019)
Conway, S. (Graduate student, primary advisor, 2019-current)
Fiorenzo, L. (Graduate student, primary advisor, 2011-2014)
Hoover, J. (Graduate student, primary advisor, 2019-current)
McCaffrey, A. (Graduate student, primary advisor, 2005-2012)
Ross, M. (Post-doc, primary advisor, 2006-2008)
Vargas, J. (Graduate student, co-advisor, 2019-current)
Walsh, F. (Graduate student, NSB rotation, 2019-2020)
Zivot, M. (Graduate student, primary advisor, 2005-2012)

Undergraduate Advisees

Alphabetical

Does not include research assistants

Alim, R. (Honors, chair, current)
Banchefsky, L. (Intern supervisor, 2008)
Bisbee, C. (Honors, chair, 2021)
Bosco, C. (Honors, member, 2018)
Burch, E. (Honors, chair, 2010)
Cataldo, A. (Honors, chair, 2009)
Chan, S. (BDIC advisor, chair, 2015)
Chaturvedi, S., (Indep. study, chair, 2018)
Chaturvedi, S. (Honors, chair, 2019)

Chen, M. (BDIC advisor, 2021)
Danforth, W. (Honors, member, current)
Dustin, J. (Honors, chair, 2015)
Fullerton, E. (Honors, member, 2012)
Harindranath, G. (Honors, chair, current)
Hedrick, J. (Honors, chair, 2014)
Heuston, A. (Honors, member, 2019)
Hirst, J. (Honors, chair, 2016)
Hoang, P. (ADRAP, supervisor, 2014-2015)
Lougee-Rodriguez, W. (Honors, member, 2018)
Ludwin-Peery, E. (Indep. study/Div III, member, Hampshire College, 2013)
Maney, S. (Indep. Study, chair, 2014)
Marcus, R. (Honors, chair, 2020)
Near, H. (Honors, chair, 2016)
Ni, X. (Honors, chair, current)
Pakey, J. (BDIC advisor, 2018)
O'Connor, S. (Honors, member, 2016)
Olson, A. (Honors, member, 2016)
Onofaro, K. (Honors, member, 2016)
O'Sullivan L. (Honors, member, 2013)
Pagnier, G. (Honors, chair, 2013)
Pang, S. (Honors, member, 2016)
Phillips, J. (Indep. study, chair, 2018)
Phillips, J. (Honors, chair, 2019)
Rambharose, J. (Indep. study, chair, 2017)
Reyes, Y. (ADRAP, supervisor, 2014-2015)
Richard, K. (Indep. study, 2009)
Saeed, A. (ADRAP, supervisor, 2015-2016)
Sidlowsky, S. (Honors, chair, 2016)
Soydan, J. (Honors, member, 2019)
Sullivan, A. (Honors, member, 2013)
Umana, A. (Indep. study, chair, 2016, not completed)
Valler, M. (Honors, chair, 2016)
Vargas, J. (Honors, chair, 2019)
Vazquez, J. (Honors, member, 2019)
Walsh, F. (BDIC advisor, chair, 2018)
Wang, Y. (Indep. study/Div III, member, Hampshire College, 2014)
Wei, R. (Honors, chair, 2019, not completed)
Winslow, E. (Honors, chair, 2017)
Zhang, J. (Honors, chair, current)
Zhu, F. (Indep. Study/Div III, member, Hampshire College, 2017)

Teaching Experience

Alphabetical within category

Format: Semester (F/S/Su) 'year (number of students)

Undergraduate

University of Massachusetts

Cognitive Psychology (Psych 315)

F '07 (124), F '12 (145), F '13 (130), S '15 (149)

Cognitive Psychology Honors (Psych 315H)

S '07 (25), F '08 (22), S '10 (19), F '11 (26), F '17 (20), F '19 (25)

Seminar in Behavioral Decision Making (Psych 391DM)

F '11 (18), S '16 (11)

Seminar in Reasoning, Judgment, and Decision Making (Psych 391RJ)

F '18 (25)

Statistics in Psychology (Psych 240)

F '05 (57), S '06 (61), F '06 (64), S '10 (68), S '13 (68)

Indiana University

Introduction to Psychology

Su '01 (49)

Methods of Experimental Psychology

F '98 (4)

Graduate

University of Massachusetts

Applied and Basic Cognition and Development (Psych 617)

S '05 (9), S '06 (8), S '07 (8), S '08 (10), S '09 (6)

Cognitive Psychology (Psych 617)

F '09 (12), F '12 (3)

Cognitive Seminar (Psych 893A)

F '08 (8), S '09 (8)

Modeling Behavior (Psych 891C)

F '04 (14), S '08 (10), S '12 (7), F '20 (12)

Psychology of Judgment and Decision Making (Psych 891O)

S '17 (14)

Statistics I (Psych 640)

F '13 (19), F '14 (11), F '15 (9), F '16 (9), F '17 (18), F '18 (9), F '19 (15), F '20 (18)

Statistics II (Psych 641)

S '14 (12), S '15 (9), S '16 (9), S '17 (12), S '18 (15), S '19 (9), S '20 (13), S '21 (11)

Other

When Smart People Make Bad Decisions (Eureka! Program, UMass campus)

Su '18 (11), Su '19 (14)

Departmental, University, Discipline Service

Alphabetical within category

Departmental

Computer and network committee, member (2006-2010)
Colloquium series organizer (2013-2015)
Chair search committee, member (2016-2017)
Diversity committee, member (2011-2013)
Human subjects committee, member (2004-2005, 2006-2009)
Personnel committee, chair (2014-2015)
Personnel committee, co-chair (2018-2019)
Personnel committee, member (2013-2015, 2017-2019)
Faculty mentor (2015-current)
IT committee, chair (2015-2017)
Lecturer search committee, member (2016-2017)
Post-doc search committee, member (2014)
Search committee, member (successful, 2007-2008)
Space committee, member (2005-2006)
Undergraduate statistics/methods coordinator (2019-current)
Undergraduate curriculum task-force, co-chair (2015-2017)
Undergraduate program director (2020-current)
Undergraduate studies committee, member (2017-current)

College/University

College of Natural Science curriculum committee, member (2020-current)
College of Natural Sciences staffing committee, member (2017)
Cognitive Science graduate certificate program, administrator (2011-current)
Cognitive Science speaker series, organizer (2011-current)
Cognitive Science speaker series, co-organizer (2006-2010)
Concepts reading group, organizer & leader (2004-2009)
Honors college grant reviewer (numerous years)
Status of diversity council, co-chair (2009-2010)
Status of diversity council, member (2007-2009)

Discipline

Consulting editor, JEP:General (2018-current)
Psychonomic Society, Review committee (2018-current)

Public/Government

Organization of Scientific Area Committees (OSAC) for Forensic Science (member), National Institute of Standards and Technology (NIST). U.S. Department of Commerce.
(<https://www.nist.gov/topics/organization-scientific-area-committees-forensic-science>)
Human factors resource committee (2019-current)

Fire debris and explosion area subcommittee (2019-2020)
Gunshot residue area subcommittee (2019-2020)
Ignitable liquids, explosives, and gunshot residue subcommittee (2020-current)

Professional Societies

Psychonomic Society, member (2008-current)

Other affiliations

UMass Neuroscience and Behavior, Core Faculty (2018-current)
UMass Philosophy Department, Affiliated faculty (2019-current)

Outreach

License plates:

- Presentation to the Massachusetts EZ ID Task Force. (November, 2014; December, 2014)
- Research on license plates reported on:
 - UMass Amherst Magazine (Summer, 2013; https://issuu.com/uofmassachusettsamherst/docs/umass_amherst_magazine__summer_2013, p11).
 - Amherst Live (Winter, 2014; <https://www.youtube.com/watch?v=4LG8HFWK-4g&feature=youtu.be>).
 - NEPR (February, 2015; <http://nepr.net/news/2015/02/21/license-plate-memory>).
 - City Lab, Atlantic Magazine interview (February, 2016).
 - NYT Magazine (July, 2019; <https://www.nytimes.com/2019/07/02/magazine/how-to-remember-a-license-plate.html>).

The rational adolescent:

- NPR (2015; <http://www.npr.org/sections/health-shots/2015/09/09/438839639/the-problem-with-teens-is-that-theyre-just-too-rational>).
- Science Daily (2015; <http://www.sciencedaily.com/releases/2015/09/150908135105.htm>).
- Neuroscience News (2015; <https://neurosciencenews.com/economic-rationality-teens-2596/>).

Other Work Experience

2001 Designer/Programmer: ExpLib: An experimental library for Visual C++.
1995 Researcher: Philips Laboratories, Briarcliff Manor, NY.
1994 Programmer/Researcher: Philips Laboratories, Briarcliff Manor, NY.
1993 Software Analyst: Scitor Corporation, Foster City, CA.

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