

Michael S. Cohen

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EDUCATION AND PROFESSIONAL EXPERIENCE

- 2022 – University of Chicago** — Senior Research Analyst
Supervisor: Dr. Jean Decety
- 2019 – 2022 University of Pennsylvania** — Postdoctoral Associate
Advisors: Dr. Joseph Kable, Dr. David Wolk
- 2015 – 2019 Northwestern University** — Postdoctoral Associate
Advisor: Dr. Paul Reber
- 2009 – 2015 University of California, Los Angeles** — Ph.D. in Psychology (Cognitive Neuroscience)
Primary advisors: Dr. Barbara Knowlton, Dr. Jesse Rissman
Dissertation: Neural mechanisms of value-directed remembering in young and older adults
- 2007 – 2009 Yale University** — Research Assistant (Full-time)
Supervisor: Dr. Jeremy Gray
- 2005 – 2007 Villanova University** — M.S. in Experimental Psychology
Primary advisor: Dr. Thomas Toppino
Thesis: “How do subjects use judgments of item difficulty to guide study strategies in selection of massed or spaced practice?: A comparison of theories”
Recipient of Ingeborg L. and O. Byron Ward Outstanding Thesis Award
- 2001 – 2005 Swarthmore College** — B.A. in Psychobiology, Minor in History

PUBLICATIONS**Manuscripts in preparation (with drafts available):**

- Cohen, M.S., Halewicz, V., Yildirim, E., & Kable, J.W.** (in prep). Individual differences in vulnerability to misinformation on impression formation for mock political candidates.
- Cohen, M.S., Lempert, K.M., Wolk, D.A., Kable, J.W.** (in prep). Aging-related cognitive and personality changes among participants from six online recruitment platforms.
- Kann, T., Berman, S., **Cohen, M.S.**, Goldknopf, E., Gülser, M., Erlikhman, G., Trinh, K., Yokoyama, O.T., Zaidel, E. (submitted). Linguistic empathy: Behavioral measures, neurophysiological correlates, and correlation with psychological empathy.
- Grandoit, E., **Cohen, M.S.**, Reber, P.J. (submitted). Reward enhancement of item-location associative memory spreads within semantic categories.
- Cohen, M.S.**, Cheng, L.Y., Paller, K.A., Reber, P.J. (in prep). Multivariate encoding-retrieval similarity in visual cortex during high-confidence memory.

Published papers:

- Han, L.T., **Cohen, M.S.**, He, L.K., Green, L.M., Knowlton, B.J., Castel, A.D., & Rissman, J. (in press). Establishing a causal role for left ventrolateral prefrontal cortex in value-directed memory encoding with high-definition transcranial direct current stimulation. *Neuropsychologia*.

- Lempert, K.M., **Cohen, M.S.**, MacNear, K.A., Reckers, F.M., Zaneski, L.A., Wolk, D.A., Kable, J.W. (2022). Aging is associated with maladaptive episodic memory-guided social decision-making. *Proceedings of the National Academy of Sciences*, *119*, e2208681119.
- Cohen, M.S.**, Cheng, L.Y., Paller, K.A., Reber, P.J. (2019). Separate memory-enhancing effects of reward and strategic encoding. *Journal of Cognitive Neuroscience*, *31*, 1658-1673.
- Hennessee, J.P., Reggente, N., **Cohen, M.S.**, Rissman, J., Castel, A.D., Knowlton, B.J. (2019). White matter integrity in brain structures supporting semantic processing is associated with value-directed remembering in older adults. *Neuropsychologia*, *129*, 246-254.
- Reggente, N., **Cohen, M.S.**, Zheng, Z., Castel, A.D., Knowlton, B.J., Rissman, J. (2018). Memory recall for high reward value items correlates with individual differences in white matter pathways associated with reward processing and fronto-temporal communication. *Frontiers in Human Neuroscience*, *12*, 241.
- Cohen, M.S.**, Rissman, J., Hovhannisyan, M., Castel, A.D., Knowlton, B.J. (2017). Free recall test experience potentiates strategy-driven effects of value on memory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *43*, 1581-1601.
- Cohen, M.S.**, Rissman, J., Suthana, N.A., Castel, A.D., Knowlton, B.J. (2016). Effects of aging on value-directed modulation of semantic network activity during verbal learning. *NeuroImage*, *125*, 1046-1062.
- Green, A.E., **Cohen, M.S.**, Raab, H., Yedibalian, C.G., Gray, J.R. (2015). Frontopolar activity and connectivity support dynamic conscious augmentation of creative state. *Human Brain Mapping*, *36*, 923-934.
- Cohen, M.S.**, Rissman, J., Suthana, N.A., Castel, A.D., & Knowlton, B.J. (2014). Value-based modulation of memory encoding involves strategic engagement of fronto-temporal semantic processing regions. *Cognitive, Affective, and Behavioral Neuroscience*, *14*, 578-592.
- Cohen, M.S.**, Yan, V.X., Halamish, V., Bjork, R.A. (2013). Do students think that difficult or valuable materials should be restudied sooner, rather than later?. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *39*, 1682-1696.
- Green, A.E., **Cohen, M.S.**, Kim, J.U., & Gray, J.R. (2012). An explicit cue improves creative analogical reasoning. *Intelligence*, *40*, 598-603.
- Toppino, T.C. and **Cohen, M.S.** (2010). Metacognitive control and spaced practice: Clarifying what people do and why. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *36*, 1480-1491.
- Toppino, T.C., **Cohen, M.S.**, Davis, M., Moors, A.C. (2009). Metacognitive control over distribution of practice: When is spacing preferred?. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *35*, 1352-1358.
- Toppino, T.C. and **Cohen, M.S.** (2009). The testing effect and the retention interval: Questions and answers. *Experimental Psychology*, *56*, 252-257.
- Unpublished preprint:**
- Cohen, M.S.**, Friedman, M.C., Soderstrom, N.C., Castel, A.D., & Bjork, R.A. (2014). Dissociations between learners' predicted and actual effects of level of processing and assigned point value on subsequent memory performance. Available at: <https://psyarxiv.com/bkcx/f>

GRANTS/FUNDED AWARDS

- 2/1/23 – 1/31/24** Meta (Facebook) Research – Foundational Integrity Research 2022 (\$100,000; J. Decety, PI)
“Testing empathy and cognition to reduce later harms from misinformation”
- 11/1/21 – 10/31/22** Meta (Facebook) Research – Foundational Integrity & Impact Research 2021: Misinformation and Polarization (\$50,000; J. Kable, PI)
“Who is most vulnerable to persistent negative effects of misinformation?”
- 11/1/20 - 12/31/21** Facebook Research – Foundational Integrity Research on Misinformation and Polarization (\$95,000; J. Kable, PI)
“Quantifying persistent effects of misinformation via neural signals”
- 1/1/16 - 12/31/16;** Northwestern University Training Program in the Neuroscience of Human Cognition
1/1/18 - 12/31/18 Postdoctoral Trainee, NIH grant T32 NS047987
- 4/1/14 – 4/30/15** NIH Ruth L. Kirchstein Predoctoral NRSA award, grant F31 AG047048
“Neural mechanisms underlying enhanced memory for valuable items in healthy aging”
- 2/1/12 – 10/1/13** Scientific Research Network on Decision Neuroscience and Aging (SRNDNA) pilot grant (\$15,000; B. Knowlton, PI), subaward under NIH grant R24 AG039350
“Neural mechanisms of value-directed remembering in younger and older adults”

INTENSIVE SUMMER COURSES

- 2022** Summer Institute in Computational Social Science (UPenn)
- 2020** Neuromatch Academy summer course interactive participant
- 2012** UC Davis/UCSB Summer Institute in Cognitive Neuroscience fellow
- 2010** UCLA NITP Advanced Neuroimaging Summer Program fellowship

CONFERENCE TRAVEL AWARDS

- 2016, 2019** Northwestern OPA Postdoctoral Professional Development Travel Award
- 2015, 2020** Scientific Research Network on Decision Neuroscience and Aging conference award
- 2013** Mechanisms of Motivation, Cognition, and Aging Interactions conference travel award

CONFERENCE PRESENTATIONS (PRIMARY AUTHORSHIP, NATIONAL/REGIONAL)

- Cohen, M.S., Halewicz, V., & Kable, J.W.** (2023). Individual differences in overcoming intuitive biases via analytic thinking is associated with influence of false information on impression formation for mock political candidates. Paper submission accepted to the Theme program at the 73rd International Communications Association annual conference, Toronto, ON, Canada.
- Duan, Z.*, **Cohen, M.S.***, & Sachveda, M.* (equal authorship contributions). Relating psychological metrics inferred from social media posts with political preferences: Evidence from a geospatial perspective. Abstract submission accepted to the Computational Methods division of the 73rd International Communications Association annual conference, Toronto, ON, Canada.
- Cohen, M.S., Halewicz, V., Yildirim, E., & Kable, J.W.** (2022). Affective polarization and analytic thinking predict persistence of corrected misinformation in judgments of political candidates. Talk presented at the 63rd annual meeting of the Psychonomic Society, Boston, MA.
- Van Geen, C.*, **Cohen, M.S.*** (co-lead author), Lempert, K.M., MacNear, K.A., Reckers, F.M., Zaneski, L., Wolk, D.A., & Kable, J.W. (2022). Neural correlates of memory-based decisions in younger and older adults. Talk presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA.

- Cohen, M.S.,** Halewicz, V., Yildirim, E., & Kable, J.W. (2022). Affective polarization and analytic thinking predict persistence of corrected misinformation in judgments of political candidates. Talk presented at the 4th Multidisciplinary International Symposium on Disinformation in Open Online Media (MISDOOM).
- Cohen, M.S.,** Halewicz, V., & Kable, J.W. (2022). Neural signatures of socioemotional processing relate to persistence of false accusations against novel political candidates. Poster presented at the Annual Meeting of the Society for Neuroeconomics, Arlington, VA.
- Van Geen, C.*, **Cohen, M.S.*** (co-lead author), Lempert, K.M., MacNear, K.A., Reckers, F.M., Zaneski, L., Wolk, D.A., & Kable, J.W. (2022). Neural correlates of memory-based decisions in younger and older adults. Talk presented at the Annual Meeting of the Society for Neuroeconomics, Arlington, VA.
- Cohen, M.S.,** Halewicz, V., & Kable, J.W. (2022). A “model system” for elucidating disinformation’s resistance to correction. Talk presented at the 1st Symposium on Disinformation Studies at Swarthmore College, Swarthmore, PA.
- Cohen, M.S.,** Halewicz, V., & Hogeboom, T., & Kable, J.W. (2021). Continued influence of false political accusations after correction. Virtual poster presented at the 62nd annual meeting of the Psychonomic Society.
- Cohen, M.S.,** Lempert, K.M, Wolk, D.A., & Kable, J.W. (2021). Aging-related cognitive and personality changes among online research participants. Virtual talk presented at the CloudResearch Innovations in Online Research conference.
- Cohen, M.S.,** Lempert, K.M, MacNear, K.A., Reckers, F.M., Zaneski, L.A., Wolk, D.A., & Kable, J.W. (2020). Effects of memory for emotional valence and episodic detail on decision-making in aging. Virtual talk presented at the Neuromatch 3.0 conference.
- Cohen, M.S.,** Lempert, K.M, MacNear, K.A., Reckers, F.M., Zaneski, L.A., Wolk, D.A., & Kable, J.W. (2020). Effects of memory for emotional valence and episodic detail on decision-making in aging. Virtual poster presented at the 18th annual meeting of the Society for Neuroeconomics.
- Cohen, M.S.,** Lempert, K.M, MacNear, K.A., Reckers, F.M., Zaneski, L.A., Wolk, D.A., & Kable, J.W. (2020). Effects of memory for social and non-social stimuli on decision-making in older adults. Flash talk presented at the Scientific Research Network on Decision Neuroscience and Aging (SRNDNA) meeting, Kalopei, HI.
- Cohen, M.S.,** Cheng, L.Y., Paller, K.A., Reber, P.J. (2019). Multivariate encoding-retrieval similarity in visual cortex during high-confidence memory. Poster presented at the 48th annual meeting of the Society for Neuroscience, Chicago, IL.
- Cohen, M.S.,** Cheng, L.Y., Paller, K.A., Reber, P.J. (2019). Primary visual cortex activity is associated with confidence in memory for spatial locations. Poster presented at the 26th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Cohen, M.S.,** Reber, P.J. (2018). Expectations about type of recognition test affects alignment of retrospective confidence judgments with accuracy. Poster presented at the 59th annual meeting of the Psychonomic Society, New Orleans, LA.
- Cohen, M.S.,** Cheng, L.Y., Paller, K.A., Reber, P.J. (2018). Reward-related brain activity during successful memory encoding. Nanosymposium talk presented at the 48th annual meeting of the Society for Neuroscience, San Diego, CA.
- Cohen, M.S.,** Cheng, L.Y., Paller, K.A., Reber, P.J. (2017). Lateral occipital complex activation associated with response confidence during forced-choice recognition of novel abstract kaleidoscope images. Poster presented at the 24th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

- Cohen, M.S.,** Cheng, L.Y., Haque, K., Paller, K.A., Reber, P.J. (2016). Brain regions associated with value-driven encoding of novel kaleidoscope images. Poster presented at the 46th annual meeting of the Society for Neuroscience, San Diego, CA.
- Cohen, M.S.,** Rissman, J., Castel, A.D., Hovhannisyan, M., Knowlton, B.J. (2016). Dual process dissociations reveal how free recall tests interspersed during learning can bolster the efficacy of value-driven strategy use. Poster presented at the Context and Episodic Memory Symposium, Philadelphia, PA.
- Cohen, M.S.,** Cheng, L.Y., Paller, K.A., Reber, P.J. (2016). High value leads to improved explicit recollection, but reduced implicit memory, when learning kaleidoscope images. Poster presented at the 23rd annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Cohen, M.S.,** Rissman, J., Castel, A.D., Hovhannisyan, M., Knowlton, B.J. (2015). Dual process dissociations reveal how free recall tests interspersed during learning can bolster the efficacy of value-driven strategy use. Poster presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.
- Cohen, M.S.,** Knowlton, B.J., Castel, A.D., Rissman, J. (2015). Deactivation of brain regions associated with subsequent forgetting predicts effects of value on recognition memory in both young and older adults. Poster presented at the 45th annual meeting of the Society for Neuroscience, Chicago, IL.
- Cohen, M.S.,** Rissman, J., Castel, A.D., Hovhannisyan, M., Knowlton, B.J. (2015). Dual process dissociations reveal how free recall tests interspersed during learning can bolster the efficacy of value-driven strategy use. Talk presented at the 12th annual Bay Area Memory Meeting, Davis, CA.
- Cohen, M.S.,** Rissman, J., Castel, A.D., Knowlton, B.J. (2014). The value of studied items enhances recall and the recollection of non-recalled items. Poster presented at the 55th annual meeting of the Psychonomic Society, Long Beach, CA.
- Cohen, M.S.,** Rissman, J., Suthana, N.A., Castel, A.D., Knowlton, B.J. (2014). Age differences in brain response to cues that signal the value of to-be-remembered information. Poster presented at the 44th annual meeting of the Society for Neuroscience, Washington, DC.
- Cohen, M.S.,** Rissman, J., Castel, A.D., Knowlton, B.J. (2013). Dual process analysis of effects of value on recognition memory subsequent to free recall. Talk presented at the 11th annual Bay Area Memory Meeting, Stanford, CA.
- Cohen, M.S.,** Rissman, J., Suthana, N.A., Giebl, S., Castel, A.D., & Knowlton, B.J. (2014). Age differences in prefrontal contributions to selective encoding of valuable to-be-remembered words. Poster presented at the 21st annual meeting of the Cognitive Neuroscience Society, Boston, MA.
- Cohen, M.S.,** Rissman, J., Harbert, E., Castel, A.D., Knowlton, B.J. (2013). Enhancement of recognition memory by point value is associated with increased recollection. Poster presented at the 54th annual meeting of the Psychonomic Society, Toronto, ON, Canada.
- Cohen, M.S.,** Rissman, J., Castel, A.D., Knowlton, B.J. (2013). Enhanced functional connectivity associated with strategic enhancement of encoding for valuable items. Poster presented at the 43rd annual meeting of the Society for Neuroscience, San Diego, CA.
- Cohen, M.S.,** Rissman, J., Harbert, E., Castel, A.D., Knowlton, B.J. (2013). Enhancement of recognition memory by point value is associated with increased recollection. Talk presented at the 10th annual Bay Area Memory Meeting, San Francisco, CA.
- Cohen, M.S.,** Rissman, J., Castel, A.D., Knowlton, B.J. (2013). Memory selectivity is associated with greater engagement of areas involved in deep semantic encoding for high-value items. Poster presented at the Mechanisms of Motivation, Cognition, and Aging Interactions (MoMCAI) conference, Washington, DC.

- Cohen, M.S.,** Rissman, J., Castel, A.D., Knowlton, B.J. (2013). Memory selectivity is associated with greater engagement of areas involved in deep semantic encoding for high-value items. Poster presented at the 20th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Cohen, M.S.,** Rissman, J., Castel, A.D., Knowlton, B.J. (2012). Activity in brain regions associated with deep semantic encoding predicts enhanced memory for high-value items. Talk presented at the 9th annual Bay Area Memory Meeting, Davis, CA.
- Cohen, M.S.,** Halamish, V., Bjork, R.A. (2011). Learners Fail To Appreciate Benefits of Longer Spacings Over Shorter Spacings in Repeated Practice. Poster presented at the 52nd annual meeting of the Psychonomic Society, Seattle, WA.
- Cohen, M.S.,** Castel, A.D., Friedman, M.C., Bjork, R.A. (2010). The Interactive Influences of Level of Processing and Item Value on Recall and Metamemory Judgments. Poster presented at the 51st annual meeting of the Psychonomic Society, St. Louis, MO.
- Cohen, M.S.** and Toppino, T.C. (2009). Metacognitive Control and Spaced Practice: Clarifying What People Do and Why. Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
- Kim, J.U.*, **Cohen, M.S.***, DeYoung, C.G., Green, A.E., Braver, T.S., Gray, J.R. (2009). Individual differences in emotional awareness moderate the effects of affective stimuli on working memory performance. Poster presented at the 16th annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Cohen, M.S.,** Davis, M., Moors, A.C., Toppino, T.C. (2008) Metacognitive Control Over Distribution of Practice: When is Spacing Preferred? Poster presented at the 20th annual convention of the Association for Psychological Science, Chicago, IL.

TEACHING EXPERIENCE

Part-time Instructor, Loyola University Chicago

Spring 2018: **Introduction to Neuroscience**

Teaching Assistant, UCLA

Spring 2014: **Introductory Psychobiology**, Instructor: Dr. Jared Wong

Guest lecture on Aging and the Brain

Winter 2014: **Cognitive Psychology**, Instructor: Dr. Martin Monti

Summer 2013: **Research Methods in Psychology**, Instructor: Dr. Ed Geiselman

Spring 2013: **Sensation and Perception**, Instructors: Dr. Ladan Shams and Dr. Hakwan Lau

Winter 2013: **Psychological Statistics**, Instructor: Dr. Rajesh Nandy

Fall 2012: **Functional Neuroimaging Lab**, Instructor: Dr. Martin Monti

Summer 2012: **Psychological Statistics**, Instructor: Dr. Tom Dehardt

Spring 2012: **Cognitive Psychology Lab**, Instructor: Dr. Ed Geiselman

Winter 2012: **Cognitive Psychology**, Instructor: Dr. Martin Monti

Spring 2011: **Research Methods in Psychology**, Instructor: Dr. Elizabeth Bjork

Winter 2011: **Introductory Psychology**, Instructor: Dr. Paul Abramson

Guest lecture on Metacognition and Eyewitness memory

MENTORED STUDENTS

UPenn undergraduate and post-baccalaureate RAs (2019-present):

Victoria Halewicz (currently PhD student at Brown Univ.), Thomas Hogeboom, Aysha Gsibat, Ece Yildirim

UCLA undergraduate and volunteer RAs (2009-2015):

Mariam Hovhannisyanyan (currently PhD student at University of Arizona), Saskia Giebl (currently PhD student at UCLA), Yasmine Sherafat (currently PhD student at University of California, Irvine), Shruti Ullas (currently

PhD student at Maastricht University), Kaitlin Swinnerton (currently full-time research data analyst at University of California, Berkeley), Hillel Dodge Cogan, Eliza Harbert, Andrea Del Castillo, James Mutter, Edrick Pirveysian, Zach Merrill, Brooke Hollyfield, Negin Boostani, Daniella Kaufman, Narek Vardanian, Brent Amiri, Weston Uribe, Jonathan Shapiro, Wesley Horng

ACADEMIC SERVICE EXPERIENCE

Ad-hoc reviewer for the following journals:

PNAS; NeuroImage; Journal of Experimental Psychology: Learning, Memory, Cognition; Learning & Memory; Neuropsychologia; Neurobiology of Aging; Metacognition and Learning; Frontiers in Decision Neuroscience

- 2022 – 2027** **Advisory board member**, Scientific Research Network on Decision Neuroscience and Aging
- 2021** **Ad hoc reviewer**, National Science Foundation – Brain and Cognitive Sciences (BCS)
- 2018** **Reviewer**, Scientific Research Network on Decision Neuroscience and Aging (SRNDNA) pilot grants
- 2017** **Mock grant review panel**, Northwestern Interdepartmental Neuroscience program
- 2016 – 2017** **NEURON mentoring partner**, Northwestern undergraduate neuroscience program
- 2016** **Qualifying exam committee member** (Student: Kristen Grunewald), Northwestern Univ. Department of Psychology
- 2016** **Workshop on NRSA grant-writing**, Northwestern Univ. Department of Psychology
- 2011 – 2019** **Alumni admissions interviewer**, Swarthmore College

SOCIETY MEMBERSHIPS

Psychonomic Society; International Communications Association; Cognitive Neuroscience Society; Society for Neuroscience; Society for Neuroeconomics; International Association for Metacognition