

## **KIMBERLY MICHELLE FENN**

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### **PROFESSIONAL EXPERIENCE**

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| 2014 – present | Associate Professor<br>Department of Psychology, Michigan State University                                   |
| 2008 – 2014    | Assistant Professor<br>Department of Psychology, Michigan State University                                   |
| 2006 – 2008    | Postdoctoral Research Associate<br>Center for Cognitive and Social Neuroscience<br>The University of Chicago |

### **EDUCATION**

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| Ph.D. | The University of Chicago, Psychology, 2006<br>Advisor: Howard C. Nusbaum, Ph.D.      |
| M.A.  | The University of Chicago, Social Sciences, 2000                                      |
| B.A.  | The University of Delaware, 1997<br>Majors: Psychology and English<br>Magna Cum Laude |

### **RESEARCH INTERESTS**

Sleep-dependent memory consolidation, Cognitive consequences of sleep deprivation, False memory, Mathematical learning, Gesture and learning, Psychology and the law

## CURRENT GRANTS

Development of a lab-based sonar task and predictive model of sonar performance under conditions of time on task fatigue. *The Joint Program Committee-5/Military Operational Medicine Research Program* (Working Group: Fatigue Mechanisms and Counter-Measures). **Kimberly M. Fenn (co-PI)**. (\$94,093, direct costs). 06/01/2021 – 05/31/2021. PI: Sylvia Guillory, Co-I: Erik M. Altmann.

Effects of sleep deprivation and individual differences on procedural placekeeping. *Office Naval Research*. **Kimberly M. Fenn (co-PI)**. (\$578,379, direct costs), 08/24/2020 - 08/23/2023. PI: Erik Altmann, Co-PI: David Z. Hambrick.

Collaborative Research: Cognitive Mechanisms of Early Math Learning - Improving Outcomes by Harnessing Multiple Memory Representations. *National Science Foundation*, **Kimberly M. Fenn (PI)**. (\$593,596 direct costs), 8/31/2016-8/30/2019, extended to 8/30/2022. Co-PI: Susan Wagner Cook.

## Completed Grants

Differential and experimental studies of procedural performance. *Office of Naval Research*. **Kimberly M. Fenn (co-PI)**. (\$327,031 direct costs). 8/1/2016 – 7/31/2019, extended to 10/31/2019. PI: Erik M. Altmann, co-PI: David Z. Hambrick.

Sleep Quality and Cognitive Fitness, *Reverie Corporation*, **Kimberly M. Fenn (PI)**, co-I: Erik M. Altmann. (\$63,716, Direct costs), 11/1/2015 – 2/1/2017.

## Pending and Unfunded Grants

Determination of the influence of sleep on the relationship between aerobic fitness and memory (DREAM). *National Institutes of Health*. **Kimberly M. Fenn (Co-PI)**. (\$2,079,553 direct costs), submitted. PI: Matthew Pontifex, Co-PI: Karin Pfeiffer.

Collaborative Research: Sleep Deprivation and Bias in Memory and Decision Making. *National Science Foundation*. **Kimberly M. Fenn (Co-PI)**. (\$299,571 direct costs), unfunded. Co-PI: Steven Frenda, Co-I: Peter Ditto.

The effect of self-regulation and portable device use on learning outcomes in STEM. *National Science Foundation*. **Kimberly M. Fenn (Co-PI)**. (\$639,666 direct costs), unfunded. PI: Susan Ravizza, Co-I: Melanie Cooper.

## HONORS AND AWARDS

- 2018 Fellow, Association for Psychological Science  
2016 Psychonomic Society Early Career Award  
2008 Fellowship for the Science, Technology, Engineering and Mathematics Education Scholars (STEMES) Program at Vanderbilt University, from the Center for the Integration of Research, Teaching and Learning and the MSU Graduate School  
2006 Honorable Mention: Richard Saller Award for best dissertation, Division of Social Sciences, The University of Chicago  
2001 Century Fellowship, The University of Chicago, four year competitive fellowship  
2004 John Dewey Lectureship, University of Chicago, competitive lectureship  
2004 Psychology Graduate Student Organization Travel Award  
1997 Phi Beta Kappa, Honor Society  
1997 Psi Chi National Psychology Honor Society

## PEER-REVIEWED PUBLICATIONS

(\*Graduate student collaborator; \*\*Undergraduate student collaborator, ^Senior author)

Berkowitz, S. R., Garrett, B. L., **Fenn, K. M.**, & ^Loftus, E. F. (in press). Eyewitness confidence may not be ready for the courts: A reply to Wixted et al. *Memory*. Advanced online publication. <https://doi.org/10.1080/09658211.2021.1952271> [IF: 1.72]

Berkowitz, S. R., Garrett, B. L., **Fenn, K. M.**, & ^Loftus, E. F. (in press). Convicting with confidence? Why we should not over-rely on eyewitness confidence. *Memory*. Advanced online publication. <https://doi.org/10.1080/09658211.2020.1849308> [IF: 1.72]

\*Stepan, M. E., Altmann, E. M., & ^**Fenn, K. M.** (2021). Caffeine selectively mitigates cognitive deficits caused by sleep deprivation. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 47(9), 1371-1382. [IF: 3.05]

\*Stepan, M. E., Altmann, E. M., & ^**Fenn, K. M.** (2021). Slow wave sleep during a brief nap is related to reduced cognitive deficits during sleep deprivation. *Sleep*, 44(11), 1-10. [IF: 5.85]

\*Day, A. J., **Fenn, K. M.** & ^Ravizza, S. R. (2021). It's Not All Bad: Laptop Use in Class is Associated with Benefits as well as Costs. *Plos One*, 16(5), e0251792. [IF: 3.24]

- Johnson, D., \*Stepan, M., Cesario, J., & ^Fenn, K. M. (2021). Sleep Deprivation and Racial Bias in the Decision to Shoot: A Diffusion Model Analysis. *Social Psychological and Personality Science*, 12(5). 638-647. [IF: 4.45]
- \*Stepan, M. E., Altmann, E. M., & ^Fenn, K. M. (2020). Effects of Total Sleep Deprivation on Procedural Placekeeping: More than Just Lapses of Attention. *Journal of Experimental Psychology: General*, 149(4). 800-806. [IF: 4.91]
- Lehet, M. I., Fenn, K. M., & ^Nusbaum, H. C. (2020). Shaping Perceptual Learning of Synthetic Speech through Feedback. *Psychonomic Bulletin & Review*, 27. 1043-1051. [IF: 5.30]
- Aldugom, M., Fenn, K. M., & ^Cook, S. W. (2020). Gesture During Math Instruction Specifically Benefits Learners with High Visuospatial Working Memory Capacity. *Cognitive Research: Principles and Implications*, 5(27).  
<https://doi.org/10.1186/s41235-020-00215-8>. [IF: 3.70]
- \*Kim, M. & ^Fenn, K. M. (2020). Sleep-Dependent Consolidation of Second Language Grammar Knowledge: The Role of Awareness. *Studies in Second Language Acquisition*, 42(5). 1107-1120. [IF: 2.04]
- \*Stepan, M. E., Fenn, K. M., & ^Altmann, E. M. (2019). Effects of Sleep Deprivation on Procedural Errors. *Journal of Experimental Psychology: General*. 148(10), 1828-1833. [IF: 4.91]
- Norris, C. J., Leaf, P. T., & ^Fenn, K. M. (2019). Negativity Bias in False Memory: Moderation by Neuroticism After a Delay. *Cognition and Emotion*. 33(4), 737-753. [IF: 2.56]
- ^Pontifex, M. B., \*McGowan, A. L., \*Chandler, M., C., \*Gwizdala, K. L., \*Parks, A. C., Fenn, K. M., & Kamijo, K. (2019). A primer on investigating the after effects of acute bouts of physical activity on cognition. *Psychology of Sport & Exercise*, 40, 1-22. [IF: 4.25]
- \*Griffin, N. R., \*Fleck, C., Uitvlugt, M. G., Ravizza, S. M., & ^Fenn, K. M. (2017). The Tweeter Matters: Factors that Affect False Memory from Twitter. *Computers in Human Behavior*, 77, 63-68. [IF: 6.83]

- \*Stepan, M. E., \*\*Dehnke, T. M., & ^Fenn, K. M., (2017). Sleep and Eyewitness Memory: Fewer False Identifications after Sleep when the Target is Absent from the Lineup. *Plos One*. <https://doi.org/10.1371/journal.pone.0182907> [IF: 3.24]
- Ravizza, S. R., Uitvlugt, M. G., & ^Fenn, K. M. (2017). Logged In and Zoned Out: How Laptop Internet Use Impacts Classroom Learning. *Psychological Science*, 28(2), 171-180. [IF: 5.39]
- ^Pontifex, M. B., \*\*Gwizdala, K. L., \*Parks, A. C., Pfeiffer, K. A., & Fenn, K. M. (2016). The association between physical activity during the day and long-term memory stability. *Scientific Reports*, 6. 38148. [IF: 5.13]
- Frenda, S. & Fenn, ^K. M. (2016). Sleep Less, Think Worse: The Effect of Sleep Deprivation on Working Memory. *Journal of Applied Research in Memory and Cognition*, 5(4), 463-469. [IF: 3.83]
- Frenda, S., Berkowitz, S. R., Loftus, E. F., ^Fenn, K. M. (2016). Sleep Deprivation and False Confessions. *Proceedings of the National Academy of Sciences, U.S.A.*, 113(8). 2047-2050. [IF: 11.21]
- ^Fenn, K. M. & Hambrick, D. Z. (2015). General Intelligence Predicts Memory Change across Sleep. *Psychonomic Bulletin & Review*, 22, 791-799. [IF: 5.30]
- \*Frenda, S., \*Patihis, L., Loftus, E. F., \*\*Lewis, H. L., ^Fenn, K. M. (2014). Sleep Deprivation and False Memories. *Psychological Science*, 25(9), 1674-1681. [IF: 5.39]
- Shintel, H., \*\*Anderson, N., ^Fenn, K. M. (2014) Talk this way: The effect of prosodically conveyed semantic information on memory for novel words. *Journal of Experimental Psychology: General*, 143(4), 1437-1442. [IF: 4.91]
- ^Ravizza, S. R., Hambrick, D. Z., & Fenn, K. M. (2014). Non-Academic Internet Use in the Classroom is Negatively Related to Classroom Learning Regardless of Intellectual Ability. *Computers & Education*, 78, 109-114. [IF: 8.54]
- Pontifex, M. B., \*Parks, A. C., \*\*O'Neil, P. C., \*\*Egner, A. R., \*\*Warning, J. T., Pfeiffer, K. A., & ^Fenn, K. M. (2014). Poorer aerobic fitness relates to reduced integrity of multiple memory systems. *Cognitive, Affective, and Behavioral Neuroscience*, 14(3), 1132-1141. [IF: 3.76]

- ^Fenn, K. M., \*\*Griffin, N. R., Uitvlugt, M. G., Ravizza, S. M. (2014).** The Effect of Twitter Exposure on False Memory Formation. *Psychonomic Bulletin & Review*, 21(6), 1551-1556. [IF: 5.30]
- Cook, S. W. **\*\*Duffy, R. G. & ^Fenn, K. M. (2013).** Consolidation and transfer of learning via hand gesture. *Child Development*, 84(6). 1863-1871. [IF: 5.02]
- Fenn, K. M., Margoliash, D., & ^Nusbaum, H. C. (2013).** Sleep restores generalized, but not rote learning of synthetic speech. *Cognition*, 128(3), 280-286. [IF: 3.65]
- ^Fenn, K. M. & Hambrick, D.Z. (2013).** What drives sleep-dependent memory consolidation: Greater gain or less loss? *Psychonomic Bulletin & Review*, 20(3), 501-506. [IF: 5.30]
- \*Coelho, C., Rosenbaum, D., Nusbaum, H. C., & ^Fenn, K.M. (2012).** Imagined actions aren't just weak actions: Task variability promotes skill learning in physical but not mental practice. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. 38(6), 1759-1764. [IF: 3.05]
- ^Fenn, K. M. & Hambrick, D. Z. (2012).** Individual differences in working memory capacity predict sleep dependent consolidation of declarative memory. *Journal of Experimental Psychology: General*, 141(3), 404-410. [IF: 4.91]
- Fenn, K. M., Shintel, H., \*Atkins, A. S., \*Skipper, J. I., & \*\*Bond, V. C. & ^Nusbaum, H. C. (2011).** When less is heard than meets the ear: Change deafness in a telephone conversation. *Quarterly Journal of Experimental Psychology*, 64(7). 1442-1456. [IF: 2.14]
- \*Brawn, T. P., Fenn, K. M., Nusbaum, H. C., & ^Margoliash, D. (2010).** Consolidating the effects of waking and sleep on motor-sequence learning. *Journal of Neuroscience*, 30(42), 13977-13982. [IF: 6.17]
- Fenn, K. M., Gallo, D. A., Margoliash, D., Roediger, Henry L. III., ^Nusbaum, H. C. (2009).** Reduced false memory after sleep. *Learning & Memory*, 16, 509-513. [IF: 4.06]
- ^Francis, A. L., Ciocca, V., Ma, L., & Fenn, K. M. (2008).** Perceptual learning of Cantonese lexical tones by tonal and non-tonal language speakers. *Journal of Phonetics*, 36(2), 268-294. [IF: 2.46]

\*\*Brawn, T. P., **Fenn, K. M.**, Margoliash, D., & ^Nusbaum, H. C. (2008). Consolidation of sensorimotor learning during sleep. *Learning & Memory* 15, 815-819. [IF: 4.06]

^Francis, A. L., Nusbaum, H. C., & **Fenn, K. M.** (2007). Effects of training on the acoustic-phonetic representation of synthetic speech. *Journal of Speech, Language, and Hearing Research*, 50, 1445-1465. [IF: 1.91]

Gentner, T. Q., **Fenn, K. M.**, Margoliash, D., & ^Nusbaum, H. C. (2006). Recursive syntactic pattern learning by songbirds. *Nature*, 440, 1204-1207. [IF: 42.78]

**Fenn, K. M.**, Nusbaum, H. C., & ^Margoliash, D. (2003). Consolidation during sleep of perceptual learning of spoken language. *Nature*, 425, 614-616. [IF: 42.78]

## CHAPTERS AND REVIEWS

^Shintel, H. & **Fenn, K. M.** (2019). Arbitrary. In *Encyclopedia of Evolutionary Psychological Science*, Springer International Publishing.

^Cook, S. W. & **Fenn, K. M.** (2017). The Function of Gesture in Learning and Memory. In Church, R.B., Alibali, M.W. & Kelly, S.D. (Eds), *Why Gesture? How the Hands Function in speaking, thinking and communicating*. Amsterdam: John Benjamins Publishing Company.

Gentner, T. Q., **Fenn, K. M.**, Margoliash, D., & ^Nusbaum, H. C. (2010). Simple stimuli, simple strategies. *Proceedings of the National Academy of Sciences, U.S.A.*, 107(16), E65.

^Nusbaum, H. C., Foraker, S. & **Fenn, K. M.** (2010). Working memory and language processing. In P.C. Hogan (Ed.) *Cambridge Encyclopedia of Language Sciences*, Cambridge University Press, Cambridge.

^Margoliash, D., & **Fenn, K. M.** (2008). Sleep and Memory Consolidation in Audition. In A. I. Basbaum & A. Kaneko & G. M. Shepherd & G. Westheimer (Eds.), *The Senses: A comprehensive reference* (Vol. 3 Audition, pp. 895-912). San Diego: Academic Press.

## PEER-REVIEWED CONFERENCE PROCEEDINGS

\*Aldugom, M., Fenn, K., Day, A., & Cook, S. W. (2021). The Role of Verbal and Visuospatial Working Memory in Supporting Mathematics Learning with and without Hand Gesture. In *Proceedings of the Annual Meeting of the Cognitive Science Society*, 43.

\*Chandler, M. C., \*Ellison, O. K., \*McGowan, A. L., **Fenn, K. M.**, & Pontifex, M. B. (2021). Physical activity and sleep moderate the relationship between stress and screen time in college-aged adults. *Medicine & Science in Sports & Exercise*, 53(5S).

**Fenn, K. M.**, \*Brawn, T. P., Gentner, T. Q., Margoliash, D., & Nusbaum, H. C. (2007). Complex acoustic pattern learning in humans and songbirds. In D. S. McNamara & J. G. Trafton (Eds.), *Proceedings of the 29th Annual Cognitive Science Society* (pp. 263-268). Austin, TX: Cognitive Science Society.

### MANUSCRIPTS UNDER REVISION

Wernette, E. D & **Fenn, K. M.** *Consolidation Without Intention: Sleep Strengthens Veridical and Gist Representations of Information After Incidental Encoding.*

### MANUSCRIPTS UNDER REVIEW

\*Uddin, S., **Fenn, K. M.**, & Nusbaum, H. C. *An afternoon nap consolidates perceptual learning of synthetic speech.*

Cook, S. W., \*Wernette, E. M. D., \*\*Valentine, M., \*Aldugom, M., \*Pruner, T., & **Fenn, K. M.** *How Prior Knowledge, Gesture Instruction, and Interference Influence Conceptual Learning over Time.*

\*Chandler, M. C., \*Ellison, O. E., \*McGowan, A. L., **Fenn, K. M.**, & Pontifex, M. B. *Physical Activity and Sleep Moderate the Relationship Between Stress and Screen Time in College Aged Adults.*

### INVITED TALKS

2019 – **Stand Up Science**, The Fledge

2019 – **Biology on Tap**, The Loft

2019 – **Case Western Reserve**, Fagan Memorial Colloquium

2019 - **Purdue University**, Psychology Colloquium



- 2018 – **American Fifth Distillery**, Orations and Libations  
2018 – **Ely and Edythe Broad Art Museum**, Altered Tour  
2018 – **University of Iowa**, DeLTA Center  
2018 – **University of Arizona**, Cognitive Science Colloquia  
2018 – **Michigan State University**, Sleep to Complete Workshop  
2016 – **Midwestern Psychological Association**  
2013 – **Notre Dame University**, Cognition, Brain, and Behavior Program  
2013 – **Michigan State University**, College of Social Science Alumni Association Annual Meeting  
2013 – **Michigan State University**, How People Learn Panel  
2013 – **Michigan State University**, Social and Personality Brown Bag  
2012 – **Michigan Undergraduate Psychology Research Conference**, Keynote Address  
2012 – **Purdue University**, Cognitive Psychology Brown Bag  
2012 – **Auditory Cognitive Neuroscience Society Annual Meeting**  
2012 – **L & S Associates**, invited talk on sleep and health  
2012 – **Michigan State University**, How People Learn Panel  
2011 - **Kalamazoo College**, Neuroscience Program Lecture Series  
2009 - **Michigan State University**, Behavioral Biology Group  
2008 - **Michigan State University**, Cognitive Science Program  
2008 - **University of Maryland**, Department of Kinesiology  
2008 - **University of Chicago**, Department of Psychology  
2007 - **Northwestern University**, Department of Psychology  
2007 - **University of Chicago**, Neuroscience Retreat

### CONFERENCE PRESENTATIONS

- \*Wernette, E. M. D., Altmann, E. M., and **Fenn, K. M.** (2020, November). *Sleep deprivation and placekeeping deficits: Does it all come down to attention?* Poster presented at the 61<sup>st</sup> annual meeting of the Psychonomic Society, held virtually
- \*Stepan, M. E., Altmann, E. M., & **Fenn, K. M.** (2020, August). *A brief nap during a period of sleep deprivation does not mitigate cognitive deficits.* Poster presented at the 34<sup>th</sup> annual meeting of the Associated Professional Sleep Societies, held virtually
- Fenn, K. M.** *The Role of Sleep in the Consolidation of Synthetic Speech Learning.* (2020, October). Talk presented as part of Sleep and Consolidation of Language Learning Symposium at the Society for the Neurobiology of Language Conference, Philadelphia, PA.
- \*Day, A. & **Fenn, K. M.** *Loneliness and Cognition: Inconclusive evidence from a young adult sample.* (2019, November). Poster presented at the 60<sup>th</sup> Annual meeting of the

Psychonomic Society. Montréal, QC, Canada.

- \*Stepan, M. E., Altmann, E. M., & **Fenn, K. M.** *Brief Naps do not Remediate Cognitive Deficits due to Sleep Deprivation.* (2019, November). Poster presented at the annual meeting of the Psychonomic Society, Montreal, QC, Canada.
- \*Wernette, E.M.D. & **Fenn, K.M.** *Consolidation without intention: Sleep strengthens memory for information that is not expected to be of later use.* (2019, November). Poster presented at the annual meeting of the Psychonomic Society Annual Meeting, Montreal, QC, Canada.
- \*Stepan, M. E., Altmann, E. M., & **Fenn, K. M.** *The Role of Caffeine in Mitigating Cognitive Deficits due to Sleep Deprivation.* (2019, June). Poster presented at the 32nd annual meeting of the Associated Professional Sleep Societies, San Antonio, TX.
- \*DelGrosso, E.M. & **Fenn, K.M.** *Sleep strengthens memory for incidentally encoded information* (2019, June). Poster presented at the 33rd annual meeting of the Associated Professional Sleep Societies, San Antonio, TX.
- \*DelGrosso, E.M., & **Fenn, K.M.** *The Role of Sleep in the Consolidation of Incidentally Encoded Information.* (2018, November). Poster presented at The annual meeting of the Psychonomic Society, New Orleans, LA.
- \*Day, A., **Fenn, K.M.**, & Ravizza, S.R. Learning More With Laptops: Class-Related Laptop Use Is Related to Higher Exam Scores. (2018, November). Poster presented at The annual meeting of the Psychonomic Society, New Orleans, LA.
- \*Stepan, M.E., **Fenn, K.M.**, & Altmann, E.M. The Role of Caffeine in Mitigating the Effect of Sleep Deprivation on Memory Maintenance. (2018, November). Poster presented at The annual meeting of the Psychonomic Society, New Orleans, LA.
- \*Aldugon, M., **Fenn, K.M.**, & Cook, S.W. How Do Individual Differences in Working Memory Capacity Predict Learning With and Without Gesture? (2018, November). Poster presented at The annual meeting of the Psychonomic Society, New Orleans, LA.
- Fenn, K.M.** & Cook, S.W. Does gesture help learners create procedural knowledge and resist interference? (2018, July) Paper presented at International Society for Gesture Studies, Cape Town, South Africa.
- \*Hendrix, N., **Fenn, K.M.** & Cook, S.W. How Does Gesture Influence Visual Attention during Mathematical Learning in College Students? (2018, July). Paper presented at the International Society for Gesture Studies, Cape Town, South Africa.
- \*Stepan, M.E., **Fenn, K.M.**, Altmann, E.M. (2018, June). Sleep Deprivation Increases Placekeeping Errors. Poster presented at the 32nd annual meeting of the Associated Professional Sleep Societies, Baltimore, MD.
- Fenn, K.M.** (2018, May). Chair, Advancing Our Understanding of Psychology and Law: The Role of Sleep, Symposium presented at the Association for Psychological

- Science Annual Convention, San Francisco, CA.
- Fenn, K.M.** (2018, May). Sleep Deprivation Increases False Confessions, Talk presented as part of Advancing Our Understanding of Psychology and Law: The Role of Sleep, Symposium presented at the Association for Psychological Science Annual Convention, San Francisco, CA.
- \*Stepan, M.E., **Fenn, K.M.**, Altmann, E.M. The Effect of Sleep Deprivation on Placekeeping Ability. (2017, November). Poster presented at the annual meeting of the Psychonomic Society, Vancouver, CA.
- \*\*Pagorek, K.T., \*\*Patel, T., **Fenn, K.M.** The Energy Drink Formula: B-Vitamins in Energy Drinks Have Little Effect on Cognition. (2017, November). Poster presented at The annual meeting of the Psychonomic Society, Vancouver, CA.
- \*Stepan, M.E., & **Fenn, K.M.** Critical Windows of Waking: Does Sleep-dependent Memory Consolidation Require a Waking Period Prior to Sleep? (2017, June). Annual Meeting of the Associated Professional Sleep Societies. Boston, MA.
- \*Stepan, M.E., Berkowitz, S., Mansour, J., \*Peltier, C., & **Fenn, K.M.** (2016, November). *Sleep And Eyewitness Identifications: Changes in Decision Making Strategies*. Poster presented at The annual meeting of the Psychonomic Society, Boston, MA
- \*Hendrix, N., **Fenn, K.M.**, & Cook, S.W. (2016, July). *The Effect of Gesture on Visual Attention During Math Learning in College Students*. Paper presented at the meeting of the International Society for Gesture Studies. Paris, France.
- Frenda, S., Berkowitz, S., Loftus, E., **Fenn, K.M.**, (2016, May). Sleep Deprivation Increases False Confession. Poster presented at the annual meeting of the Association for Psychological Science, Chicago, IL
- \*Stepan, M., \*\*Dehnke, T., **Fenn, K.M.**, (2015, November). *The Effect of Sleep on Eyewitness Memory*. Poster presented at the annual meeting of the Psychonomic Society, Chicago, IL
- \*Frenda, S., Berkowitz, S., Loftus, E., **Fenn, K.M.**, (2015, November). *Sleep Deprivation Increases False Confessions*. Poster presented at the annual meeting of the Psychonomic Society, Chicago, IL
- Danovitch, J. & **Fenn, K.M.**, (2015, May). *Superior Memory for Information Acquired From the Internet*. Paper presented as part of the Does Google Make Us Stupid? How Using the Internet Affects Learning and Metacognition Symposium at the annual meeting of the Association for Psychological Science, New York, NY
- \*Stepan, M., \*\*Dehnke, T., **Fenn, K.M.**, (2015, May). *Effect of Sleep on Eyewitness Memory*. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL
- \*Stec, K., **Fenn, K.M.**, Hambrick, D.Z. (2015, May). *Individual Differences in Personality and Cognitive Ability that Affect Classroom Outcomes*. Paper presented at the annual Meeting of the Midwestern Psychological Association, Chicago, IL

- Fenn, K.M.**, Frenda, S. J., Zaragoza, M. S., Loftus, E. F., Berkowitz, S. R. (2014, November). *Sleep and False Memory: Friend or Foe?* Paper presented as part of the Memory, Sleep, and Dreams Symposium at the annual meeting of the Psychonomic Society, Long Beach, CA
- \*\*Fleck, C. R., \*\*Griffin, N. G., Uitvlugt, M. G., Ravizza, S., & Fenn, K. M.** (2014, November). *More Than Just the Medium: Factors Affecting False Memory From Twitter*. Poster presented at the annual meeting of the Psychonomic Society, Long Beach, CA.
- Shintel, H., **\*\*Anderson, N., Fenn, K.M.** (2013, November) *Talk this way: The effect of prosodically conveyed semantic information on memory for novel words*. Poster presented at the annual meeting of the Psychonomic Society, Toronto, ON.
- Fenn, K.M., \*\*Griffin, N.R., Uitvlugt, M.G., Ravizza, S.M.** (2013, November). *The Effect of Social Media on False Memory Formation #memoryfail?* Poster presented at the annual meeting of the Psychonomic Society, Toronto, ON.
- Fenn, K.M., \*Frenda, S., \*Patihis, L., Loftus, E.F., \*\*Lewis, H.L.,** (2013, May). *Sleep tight and don't let the misinformation bite: The role of sleep deprivation in the formation of false memories*. Paper presented as part of Remaking Memory: New Advances in False Memory Research Symposium at the annual meeting of the Association for Psychological Science, Washington, D.C.
- Fenn, K.M. & Zaragoza, M. S.** (2012, November). *Sleep can Increase and Decrease Susceptibility to Misleading Information*. Poster presented at the annual meeting of the Psychonomic Society, Minneapolis, MN.
- Cook, S.W. & **Fenn, K.M.** (2012, July). *Gesture improves conceptual learning and enhances learning across time*. Paper presented at the International Society for Gesture Studies, Lund, Sweden.
- Fenn, K. M., & Hambrick, D.Z** (2012, May). *Sleep-Related Consolidation: A Neglected Dimension of General Intelligence?* Poster presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
- Fenn, K.M.** (2012, January). *Consolidation of Auditory Learning during Sleep*. Talk presented at the annual meeting of the Auditory Cognitive Neuroscience Society, Tucson, AZ.
- Cook, S.W., **\*\*Duffy, R.G., & Fenn, K.M.** (2011, November). *Gesture creates learning that improves over time*. Paper presented at the annual meeting of the Psychonomic Society, Seattle, WA.
- Fenn, K.M. & Hambrick, D.Z.** (2011, May). *Individual differences in sleep-dependent memory consolidation*. Paper presented as part of Memory Consolidation and Structure in Sleep and Dreams Symposium at the annual meeting of the Association for Psychological Science, Washington, D.C.
- Fenn, K.M. & Hambrick, D.Z.** (2010, November). *Individual differences in working memory*

- capacity predict sleep-dependent memory consolidation.* Paper presented at the annual meeting of the Psychonomic Society, St. Louis, MO.
- Fenn, K.M.** & Wagner Cook, S. (2010, November). *Sleep enhances abstract mathematical learning.* Poster presented at the annual meeting of the Psychonomic Society, St. Louis, MO.
- Albert, N.B, Beilock, S.L. & **Fenn, K.M.** (2010, November). *Working memory and offline memory processes.* Poster presented at the annual meeting of the Psychonomic Society, St. Louis, MO.
- Cook, S.W. & **Fenn, K.M.** (2010, July). *Gesture improves retention and transfer of symbolic learning in adults.* Paper presented at the International Society for Gesture Studies, Frankfurt (Oder), Germany
- Fenn, K.M.** & Cook, S.W. (2010, May). *Consolidation of abstract math learning via sleep and gesture.* Poster presented at the annual meeting of the Association for Psychological Science, Boston, MA.
- Fenn, K. M.,** Gallo, D. A., Margoliash, D., Roediger, Henry L. III., Nusbaum, H. C. (2009, November). *Reduced false memory after sleep.* Poster presented at the annual meeting of the Psychonomic Society, Boston, MA.
- Fenn, K. M.,** Margoliash, D. & Nusbaum, H. C. (2008, November). *Sleep consolidates generalized but not rote learning of synthetic speech.* Paper presented at the annual meeting of the Psychonomic Society, Chicago, IL.
- Fenn, K. M.,** Margoliash, D. & Nusbaum, H. C. (2008, May). *Differences in Sleep-Related Consolidation Effects in Rote and Generalized Perceptual Learning.* Poster presented at the annual meeting of the American Psychological Society, Chicago, IL.
- Fenn, K. M.,** Margoliash, D. & Nusbaum, H. C. (2007, November). *A full night's benefit from a mere nap: Consolidation of perceptual learning of synthetic speech.* Poster presented at the annual meeting of the Psychonomic Society, Long Beach, CA.
- Fenn, K. M.,** & Nusbaum, H. C. (2007, November). *Attending to what is said or who said it.* Paper presented at invited symposium at the annual meeting of the Acoustical Science of America, New Orleans, LA.
- Fenn, K. M.,** \*Brawn, T. P., Gentner, T. Q., Margoliash, D., & Nusbaum, H. C. (2007, August). *Complex acoustic pattern learning in songbirds and humans.* Paper presented at the annual meeting of the Cognitive Science Society, Nashville, TN.
- Fenn, K. M.,** Nusbaum, H. C., Beilock, S. (2006, November). *Sleep Consolidation of Motor Learning in Golf Putting.* Poster presented at the annual meeting of the Psychonomic Society, Houston, TX.
- \*Brawn, T. P., **Fenn, K. M.,** Nusbaum, H. C., Margoliash, D. (2006, October). *Consolidation during sleep of complex sensorimotor skill learning.* Poster presented at the annual meeting of the Society for Neuroscience, Atlanta, GA.

- Fenn, K. M.,** Wittenbrink, B., & Nusbaum, H. C., (2005, November). *Training effects on implicit stereotype bias in the decision to shoot.* Poster presented at the annual meeting of the Psychonomic Society, Toronto, CA.
- Gentner, T. Q., **Fenn, K. M.,** Margoliash, D., & Nusbaum, H. C. (2005, November). *Recursive syntactic pattern learning by songbirds.* Poster presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
- Fenn, K. M.,** \*Atkins, A. S., \*Skipper, J. I., \*\*Bond, V.C., & Nusbaum, H. C. (2004, November). *Where less is heard than meets the ear: Change deafness in a telephone conversation.* Poster presented at the annual meeting of the Psychonomic Society, Minneapolis, MN.
- Fenn, K. M.,** Nusbaum, H. C. & Small, S. L. (2004, April). *Cortical mechanisms of perceptual learning of spoken language.* Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Fenn, K. M.,** Nusbaum, H. C. & Small, S. L. (2003, May). *Neural correlates of perceptual learning of synthetic speech.* Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- Fenn, K. M.,** Nusbaum, H.C., & Margoliash, D. (2002, November). *The effects of sleep on perceptual skill acquisition.* Poster presented at the annual meeting of the Psychonomic Society, Kansas City, MO.
- Fenn, K. M.,** Nusbaum, H.C., & Margoliash, D. (2002, May). *The effects of sleep on perceptual learning of synthetic speech.* Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- Nusbaum, H.C. & **Fenn, K. M.** (2001, November). *The role of feedback in perceptual learning of synthetic speech.* Paper presented at the annual meeting of the Psychonomic Society, Orlando, FL.

## **PROFESSIONAL ACTIVITIES AND SERVICE**

**Associate Editor:** Journal of Experimental Psychology: General (2022 - )

**Consulting Editor:** Journal of Experimental Psychology: General (2013 – 2022)

### **Grant Panels**

2017 – National Science Foundation

2017 – National Science Foundation, Career Award

### **Ad Hoc Grant Reviewer**

2021 – National Science Foundation

2020 – National Science Foundation

2018 – National Science Foundation

2017 – National Science Foundation

2016 – Israeli Science Foundation  
2015 – National Science Foundation  
2013 – Medical Research Council

### **Ad Hoc Journal Reviewer**

Behavioral Brain Research; Behavioral and Brain Function; Behavioral Neuroscience; Brain and Language; Cognition; Cognitive Psychology; Cognitive Research: Principles and Implications; Cognitive Science; Human Brain Mapping; Journal of Cognitive Neuroscience; Journal of Experimental Child Psychology; Journal of Experimental Psychology: Applied; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of Neuroscience; Journal of Speech, Language, and Hearing Research; Learning & Instruction; Memory; Memory & Cognition; Neurobiology of Learning and Memory; Neuroscience Letters; Open Mind: Discoveries in Cognitive Science; Perspectives on Psychological Science; Physiology and Behavior; PLoS One; Proceedings of the National Academy of Sciences, U.S.A.; Psychonomic Bulletin & Review; Sleep; Quarterly Journal of Experimental Psychology

### **TEACHING EXPERIENCE**

#### **Undergraduate Level**

<b>Introduction to Psychology (PSY 101)</b>	yearly, beginning 2010
Lecture	
<b>Sleep and Circadian Rhythms (PSY 493)</b>	2009, 2011, 2015, 2018, 2019, 2020, 2021
Upper level writing course, lecture and discussion	
<b>Neuroscience of Learning and Memory (PSY 410)</b>	2013, 2014, 2016
Upper level writing course, lecture and discussion	
<b>High Achievers: Introductory to Psychology (PSY 101)</b>	2013, 2014
Lecture and discussion with advanced high school students	
<b>Cognitive Psychology (PSY 200)</b>	2011 - 2015
Online	
<b>Cognitive Psychology (PSY 200)</b>	2010
Lecture and Discussion	
<b>Introduction to Psychology: Honors (PSY 101H)</b>	2008, 2009
Lecture and discussion	
<b>Memory Consolidation (University of Chicago)</b>	2004
Seminar course, lecture and discussion	

#### **Graduate Level (University of Chicago)**

***Preceptor***

Master of Arts Program in Social Sciences

2005 – 2006

Teaching assistant for course in social science analysis

Advised 18 students from conception of Master's topic to thesis completion

**GRADUATE STUDENTS**

*Supervisor*

Present Elle Delgrosso, Ph.D candidate

Present Josue Franco, Ph.D Candidate

2020 Alison Day, M.A.

2019 Michelle Stepan, Ph.D.

**UNDERGRADUATE STUDENTS**

*Supervisor – Honors Theses*

2018 Adam Acker, "Sleep-Dependent Language Acquisition and Individual Differences in Working Memory"

2016 Leah Getsov, "The effect of menstrual cycle on False Memory"

2015 Cory Fleck, "Gender Stereotypes and False Memory"

2014 Stephen Buskirk, "Survival Processing and Effects of Cohort Defense"

2014 Taylor Dehnke, "The Effect of Time of Day on Eyewitness Memory"

2014 Nicholas Griffin, "The Effect of Familiarity on Twitter Feeds and False Memory"

2014 Rudra Joshi, "Effects of Short-Term Vitamin B Supplementation on Memory, Attention and Mood"

2014 David Smith, "The Effect of Decision-Making on False Memory"

2012 Nathan Anderson, "The Role of Prosody in Word Learning"

2012 Ryan Duffy, "Gesture and Mathematical Equivalence Learning in Children"

2012 Holly Lewis, "The Effect of Sleep Deprivation on False Memory"

2012 Kimberly Tweedale, "Reliability of Sleep-dependent Memory Consolidation"

2010 Jessica Barnese, "The Effect of Stress on Consolidation of Emotional Memory"

**OUTREACH**

Instructor, Grandparents University

2 sessions yearly beginning in 2009

MSU Science Festival

Multiple sessions 2018, 2019, 2021

Panel member, How People Learn

2012, 2013

Panel member, Future of Memories Meeting

2012

Volunteer, Michigan Edge Achievement Program

2013

**DEPARTMENTAL SERVICE**

Chair, Dept of Psychology Human Subjects Committee

2014 –



Member, Neuroscience Program Graduate Advisory Council	2014 – 2017
Member, Dept of Psychology Colloquium Committee	2010 –
Chair, Dept of Psychology Colloquium Committee	2011 – 2013
Member, Dept of Psychology Human Subjects Committee	2011 – 2014
Member, Neuroscience Program Comprehensive Exam Committee	2010 – 2011
Planning committee for Regional Cognitive Science Conference	2010 – 2011
Neuroscience Retreat Planning Committee, Committee Member	2007 - 2008
Psychology Representative, Faculty and Student Engagement Program	2005 – 2006
Chair, Graduate Student Travel and Research Fund Committee	2003 – 2004
Member, Graduate Student Travel and Research Fund Committee	2002 – 2004

### **PROFESSIONAL AFFILIATIONS**

American Academy of Sleep Medicine  
American Psychology-Law Society  
Association for Psychological Science  
Psychonomic Society