

CURRICULUM VITAE

J. Devin McAuley

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RESEARCH INTERESTS

Timing and rhythm in humans and other animals
Auditory perception, attention and memory; Music cognition
Neurobiology of timing and attention
Cognitive development and aging
Dynamic systems approaches to perception, action and cognition

EDUCATION

Ph.D.	1995	Indiana University, Bloomington	Cognitive Science and Computer Science
M.S.	1991	Indiana University, Bloomington	Computer Science
B.A.	1988	Indiana University, Bloomington	Mathematics and Computer Science

PROFESSIONAL EXPERIENCE

2005 – Present	Associate Professor, Department of Psychology Director, JP Scott Center for Neuroscience, Mind, and Behavior Bowling Green State University, Bowling Green, Ohio
1999 – 2005	Assistant Professor, Department of Psychology Bowling Green State University, Bowling Green, Ohio
1997 – 1999	Postdoctoral Research Fellow, Department of Psychology The Ohio State University, Columbus, Ohio
1995 – 1997	Postdoctoral Research Fellow, School of Psychology University of Queensland, Brisbane, Australia

AWARDS AND HONORS

Invited Participant, APA SciLC	Washington D. C.	October, 2007
APA Visiting Fellowship in fMRI	Martinos MR Center, MGH, Boston	May, 2006
Outstanding Young Scholar Award	Bowling Green State University	2004
Honorary Research Consultant	University of Queensland	1998 – 2000
Music Cognition Postdoctoral Fellowship	The Ohio State University	1998 – 1999
Graduate School Postdoctoral Fellowship	The Ohio State University	1997 – 1998
University Postdoctoral Fellowship	University of Queensland	1995 – 1997
Esther L. Kinsley Dissertation Award	Indiana University Foundation	1996
Outstanding Dissertation Award	Indiana University	1996
National Research Service Award	National Institute of Mental Health	1993 – 1995
Marr Prize	Cognitive Science Society	1994
Connectionist Models Fellowship	University of Colorado, Boulder	1993

RESEARCH GRANTSCurrent

Title: Effects of Aging and the Cholinergic System on Attention and Timing
Investigators: K. Pang, BGSU & VA Medical Center, East Orange; D. McAuley, BGSU
Project role: Co-Investigator; PI, BGSU subcontract
Funding source: National Institutes of Health
Total direct costs: \$750,000
Project dates: February 1, 2003 – January 31, 2009

Title: Neural Correlates of Individual Differences in Rhythm Perception
Investigators: D. McAuley, BGSU; J. Grahn, Cambridge University.
Project role: Principal Investigator
Funding source: GRAMMY Foundation
Total direct costs: \$20,300
Project dates: April 1, 2007 – March 31, 2009

Title: Development of Attention to Maternal Speech
Investigators: T. Bergeson, IU Medical Center; L Dilley, BGSU; D. McAuley, BGSU
Project role: Co-Investigator
Funding source: National Institutes of Health
Total direct costs: \$1,958,090
BGSU subcontract: \$394,361
Project dates: July 1, 2007 – June 30, 2012

Title: Parkinson's Disease Research Network
Project role: Principal Investigator
Co-Investigators: Dilley, Goberman, Scherer, BGSU; Elmer, UT; Duerk, CWRU.
Funding source: Research Capacity Expansion Grant (BGSU)
Direct costs: \$69,708
Project dates: May 15, 2008 – June 30, 2009.

Submitted (pending)

Title: Mechanisms of Timing and Temporal Processing
Project role: Principal Investigator
Funding source: National Science Foundation
Total costs: \$240,000

Submitted (in review)

Title: Behavioral and Neural Markers of Individual Diff. in Perceptual Timing
Project role: Principal Investigator
Funding source: National Institutes of Health
Total direct costs: \$275,000

Completed

Title: Effect of Age and Tempo in Response to Music
Investigators: M. Jones, OSU; J. D. McAuley, BGSU ; C. Drake, CNRS, France.

Project role: Co-Investigator; PI, BGSU subcontract
 Funding source: International Foundation for Music Research
 Total direct costs: \$110,000
 Project dates: August 1, 1999 – July 31, 2002

Title: An Entrainment Model of the Categorization of Short Temporal Intervals
 Project role: Principle Investigator
 Funding source: Bowling Green State University
 Amount: \$5,500
 Project dates: July 1, 2000 – July 30, 2001

Title: Training in Functional Magnetic Resonance Imaging
 Project role: Principle Investigator
 Funding source: Bowling Green State University
 Amount: \$550
 Project dates: May 2006

ARTICLES IN REFEREED JOURNALS

1. Dilley, L.C. and **McAuley, J.D.** (in press). Distal prosodic context affects word segmentation and lexical processing. *Journal of Memory and Language*.
2. Henry, M.J. and **McAuley, J.D.** (in press). Evaluation of an imputed pitch velocity model of the auditory kappa effect. *Journal of Experimental Psychology: Human Perception and Performance*.
3. **McAuley, J.D.** and Miller, N. S. (2007). Picking up the pace: Effects of global temporal context on sensitivity to the tempo of auditory sequences. *Perception & Psychophysics*, 69, 709 – 718.
4. Pang, K. C. H., Miller, J.P., Fortress, F. and **McAuley, J. D.** (2006). Age-related disruptions of circadian rhythms and memory in an animal model of senescence. *Age*, 28, 283 – 296.
5. **McAuley, J.D.**, Miller, J. P. and Pang, K. C. H. (2006). Modeling the effects of the NMDA receptor antagonist MK-801 on timing in rats. *Behavioral Neuroscience*, 120, 1163 – 1168.
6. **McAuley, J.D.**, Jones, M. R., Holub S., Johnston, H. M. and Miller, N. S. (2006). The time of our lives: Lifespan development of timing and event tracking. *Journal of Experimental Psychology: General*, 135, 348 – 367.
7. Miller, J. P., **McAuley, J. D.** and Pang, K. C. H. (2006). Effect of the NMDA receptor antagonist MK-801 on short-interval timing in rats. *Behavioral Neuroscience*, 120, 162 – 172.
8. Jones, M. R., Barnes, R., Brunetti, R., Ellis, R., Johnston, H., Large, E., MacKenzie, N, **McAuley, J. D.**, Penel, A., and Puente, J. (2006). News from the Roar Lab at the Ohio State University, *Cognitive Processing*, 7, 60 - 64
9. Miller, N. S. and **McAuley, J. D.** (2005). Tempo sensitivity in isochronous tone sequences: The multiple-look model revisited. *Perception & Psychophysics*, 67, 1150-1160.
10. Jones, M. R. and **McAuley, J. D.** (2005). Time judgments in global temporal contexts. *Perception & Psychophysics*, 67, 298 – 317.
11. Miller, J. P., **McAuley, J. D.** and Pang, K. C. H. (2005). Spontaneous expression of c-Fos in young and old mice. *Neurobiology of Aging*, 26, 1107-1115.

12. **McAuley, J. D.**, Stevens, C. J. and Humphreys, M. S. (2004). Play it again: The role of stimulus familiarity in memory for music. *Acta Psychologica*, 116, 93-108.
13. **McAuley, J. D.**, Miller, J. P. and Pang, K. C. H. (2004). Age-related changes in the spontaneous motor rhythms of the senescence accelerated mouse (SAMP8). *Experimental Aging Research*, 30, 113 – 127.
14. Pang, K. C. H., Miller, J. P. and **McAuley, J. D.** (2004). Circadian rhythms in SAMP8: A longitudinal study of the effects of age and experience. *Neurobiology of Aging*, 25, 111 – 123.
15. **McAuley, J. D.** and Jones, M. R. (2003). Modeling effects of rhythmic context on perceived duration: A comparison of interval and entrainment approaches to short-interval timing. *Journal of Experimental Psychology: Human Perception and Performance*, 29, 1102-1125.
16. **McAuley, J. D.**, Miller, J. P., Beck, E., Nagy, Z. M. and Pang, K. C. H. (2002). Age-related disruptions in circadian timing: Evidence for “split” activity rhythms in the SAMP8. *Neurobiology of Aging*, 23, 625 – 632.
17. **McAuley, J. D.** and Semple, P. (1999). The effect of tempo and musical experience on perceived beat. *Australian Journal of Psychology*, 51, 176-187.
18. **McAuley, J. D.** and Kidd, G. R. (1998). Effect of deviations from temporal expectations on tempo discrimination of isochronous tone sequences. *Journal of Experimental Psychology: Human Perception and Performance*. 24, 1786-1800.
19. **McAuley, J. D.** and Wiles, J. (1996). Memory, time, change, and structure in ANNs: Distilling cognitive models into their functional components. *Noetica: Open Forum*, 2(7).
20. **McAuley, J. D.** and Stampfli, J. (1994). Analysis of the effect of noise on a model for the neural mechanism of short-term active memory. *Neural Computation* 6, 666-678.

ARTICLES IN REVIEW OR REVISION

21. Henry, M. J., **McAuley, J.D.**, and Zaleha, M. F. (in review). Perceived pitch depends on perceived time: Further test of an auditory motion hypothesis. *Perception & Psychophysics*.
22. Grondin, S. and **McAuley, J.D.** (in review). Duration discrimination in cross modal sequences. *Perception & Psychophysics*.
23. Grahn, J. and **McAuley, J.D.** (in review). Neural bases of individual differences in timing: Does the beat go on for everyone?
24. **McAuley, J. D.**, Stewart, A. L., and Seubert, S. M. (in revision). Why are two hands better than one? The multiple-clock hypothesis revisited.

BOOK CHAPTERS

1. Pang, K. C. H. and **McAuley, J. D.** (2003). Importance of frontal motor cortex in divided attention and simultaneous temporal processing. In *Functional and Neural Mechanisms of Interval Timing*, Meck, W. H., Editor, CRC Press, Boca Raton, FL., pp. 351 – 369.
2. Port, R. F., **McAuley, J. D.** and Anderson, S. (1996). Toward simulated audition in open environments. In Ellen Covey, Harold Hawkins, Theresa McMullen, and Robert Port, editors, *Neural Representation of Temporal Patterns*. Plenum, New York, NY, pp. 77-106.
3. Port, R. F., Cummins, F. and **McAuley, J. D.** (1995). Naive time, temporal patterns, and human audition. In Robert Port and Tim van Geldar, editors, *Mind as Motion: Explorations in the Dynamics of Cognition*. Bradford Books/MIT Press, pp. 339-371.

REFEREED CONFERENCE PAPERS

1. Henry, M. J. and **McAuley, J.D.** (2008). Perceived ‘closeness’ in pitch depends in part on perceived ‘closeness’ in time: Further support for an auditory motion hypothesis. *Proceedings of the 10th International Conference on Music Perception and Cognition*.
2. **McAuley, J. D.**, Frater, D., Janke, K., and Miller, N. S. (2006). Detecting changes in timing: Evidences for two modes of listening. *Proceedings of the 9th International Conference on Music Perception and Cognition*.
3. Stevens, C. J., **McAuley, J. D.** and Humphreys, M. S. (1999). Relational information in memory for music: The interaction of melody, rhythm, text and instrument. *Proceedings of the Fourth Annual Conference of the Australasian Cognitive Science Society*.
4. **McAuley, J. D.** and Jones, M. R. (1999). The role of rhythm in attending to auditory patterns. *Proceedings of the International Conference on Neural Information Processing*, pp 1490-1493.
5. **McAuley, J. D.** (1998). Context effects in time discrimination. *Proceedings of the 16th International Congress on Acoustics*.
6. Blanc, L., **McAuley, J. D.** and Wiles, J. (1997). Are attractors necessary in a connectionist model of deep dyslexia? *Proceedings of the Nineteenth Annual Conference of the Cognitive Science Society*. Lawrence Erlbaum Associates, Hillsdale, New Jersey.
7. **McAuley, J. D.** (1996). On the nature of timing mechanisms in cognition. *Proceedings of the Eighteenth Annual Conference of the Cognitive Science Society*. Lawrence Erlbaum Associates, Hillsdale, New Jersey, pp. 615-620.
8. **McAuley, J. D.** (1996). The role of rhythm in cognition. *Proceedings of the Eighteenth Annual Conference of the Cognitive Science Society*. Lawrence Erlbaum Associates, Hillsdale, New Jersey, pp. 29-30.
9. **McAuley, J. D.** (1994). Time as phase: a dynamic model of time perception. *Proceedings of the Sixteenth Annual Conference of the Cognitive Science Society*. Lawrence Erlbaum Associates, Hillsdale, New Jersey, pp. 219-227.
10. **McAuley, J. D.** (1994). Finding metrical structure in time. *Proceedings of the 1993 Connectionist Models Summer School*. M.C. Mozer, P. Smolensky, D.S. Touretzky, J.L. Elman, and A.S. Weigand, editors. L Erlbaum Associates, Hillsdale, New Jersey, pp. 219-227.
11. Nienart, J. and **McAuley, J. D.** (1994). Using prediction to learn pre-linguistic speech characteristics: a connectionist model. *Proceedings of the International Conference on Spoken Language Processing*.
12. **McAuley, J. D.**, Stampfli, J. and Holt, J. (1992). The role of noise in trace memory. *Proceedings of the Computational Neuroscience Symposium*. The IUPUI Machine Intelligence Research Group, Indianapolis, Indiana, pp. 259-266.
13. **McAuley, J. D.** (1992). A model for the perception of temporal patterns. *Proceedings of the International Joint Conference on Neural Networks*. IEEE, Volume 3, pp. 798-803.

TECHNICAL REPORTS

1. **McAuley, J. D.** (1995). Perception of time as phase: Toward an adaptive-oscillator model of rhythmic pattern processing. Technical Report No. 151 (Doctoral dissertation), Indiana University Cognitive Science Program.
2. **McAuley, J. D.** (1993). Learning to perceive and produce rhythmic patterns in an artificial neural network. Technical Report No. 371, Indiana University, Computer Science Department.
3. Cummins, F., Port, R. F., **McAuley, J. D.**, and Anderson, S. (1993). Temporal pattern recognition with fully recurrent neural networks. Technical Report No. 93, Indiana University, Cognitive Science Program.

PUBLISHED ABSTRACTS

1. **McAuley, J. D.** and Pang, K. C. H. (2007). Effects of NBM lesions on selective attention in an interval timing task. Program Number 742.9 2007 Abstracts Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2007. CD-ROM.
2. Grahn, J. and **McAuley, J. D.** (2007). Using fMRI to investigate individual differences in beat perception. Program Number 303.23 2007 Abstracts Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2007. CD-ROM.
3. Henry, M. J. and **McAuley, J. D.** (2007). Increasing pitch velocity increases the magnitude of the auditory kappa effect. *Abstracts of the Psychonomic Society: 48th Annual Meeting*.
4. Grondin, S. and **McAuley, J. D.** (2007). Crossmodal comparisons of intervals presented or not presented in sequences. *Abstracts of the Psychonomic Society: 48th Annual Meeting*.
5. Stewart, A. L., **McAuley, J. D.** and Seubert, S. M. (2007). Why are two hands better than one? The bimanual advantage revisited. *Abstracts of the Psychonomic Society: 48th Annual Meeting*.
6. **McAuley, J. D.**, Miller, J. P. and Pang, K. C. H. (2006). Effects of selective cholinergic NBM lesions on short-interval timing. Program Number 574.24 2006 Abstracts Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2006. CD-ROM.
7. Miller, J. P., **McAuley, J. D.** and Pang, K. C. H. (2006). Using scalar expectancy theory to clarify discrepancies in the effects of the NMDA antagonist MK-801 on short-interval timing in rats. Program Number 572.25 2006 Abstracts Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2006. CD-ROM.
8. Curtindale, L. M. and **McAuley, J. D.** (2006). Differential effects of event rate on sustained auditory and visual attention. *Abstracts of the Psychonomic Society: 47th Annual Meeting*, p. 127.
9. Dilley, L. C. and **McAuley, J. D.** (2006). Beyond metrical stress: Effect of prosodic context on speech segmentation. *Abstracts of the Psychonomic Society: 47th Annual Meeting*, p. 108.
10. Mercier, A. M. and **McAuley, J. D.** (2006). Developmental changes in tempo sensitivity: Support for an age-specific entrainment region hypothesis. *Proceedings of the International Conference on Music Perception and Cognition*.
11. Miller, J. P., Borawski, S., **McAuley, J. D.** and Pang, K. C. H. (2005). Gap location and duration matter in short-interval timing in rats. Program Number 413.19 2005 Abstracts Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2005. CD-ROM.
12. **McAuley, J. D.**, Curtindale, L. M. and Pang, K. C. H. (2005). Testing a basic assumption of interval models of short-interval timing: Does the internal clock work like a stopwatch? *Abstracts of the Psychonomic Society: 46th Annual Meeting*, p. 90.

13. Miller, J. P., **McAuley, J. D.**, and Pang, K. C. H. (2004). Effect of MK-801 on time estimation in rats trained on the peak-interval procedure. Program Number 550.19 2004 Abstracts Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2004. CD-ROM.
14. Miller, N. S. and **McAuley, J. D.** (2004). Factors affecting tempo discrimination of isochronous tone sequences: Further test of a generalized version of the multiple-look model. *Abstracts of the Psychonomic Society: 45th Annual Meeting*, p. 97.
15. **McAuley, J. D.** and Dilley, L. C. (2004). Acoustic correlates of perceived rhythm in spoken English. *Journal of the Acoustical Society of America*, 115 (5), pp. 2397-98.
16. Ayala, C. and **McAuley, J. D.** (2004). Effect of prior exposure on memory for music. *Proceedings of the International Conference on Music Perception and Cognition*.
17. Miller, N. S. and **McAuley, J. D.** (2003). Tempo discrimination of isochronous tone sequences: A revised multiple-look model. *Abstracts of the Psychonomic Society: 44th Annual Meeting*, p. 59.
18. Miller, J. P., **McAuley, J. D.**, and Pang, K. C. H. (2003). Effect of age on cellular activity in the suprachiasmatic nucleus of the senescence-accelerated mouse (SAMP8). Program Number 284.25. 2003 Abstracts Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2003. CD-ROM.
19. Gordon, N. S., **McAuley, J. D.**, Miller, J. P., Wang, M. and Pang, K. C. H. (2003). A comparison of simultaneous temporal processing in young and elderly rats and humans. Program Number 515.18. 2003 Abstracts Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2003. CD-ROM
20. Miller, N. S. and **McAuley, J. D.** (2002). Tempo discrimination of isochronous tone sequences: The multiple-look model revisited. *Journal of the Acoustical Society of America*, 112 (5), p. 2273.
21. **McAuley, J. D.** and Ayala, C. (2002). The effects of timbre on melody recognition are mediated by familiarity, *Journal of the Acoustical Society of America*, 112 (5), p. 2264.
22. Toft, J. C. and **McAuley, J. D.** (2002). Response latencies in duration judgments. *Abstracts of the Psychonomic Society: 43rd Annual Meeting*, p. 37.
23. **McAuley, J. D.** (2001). Global effects of timbre on melody recognition are mediated by familiarity. *Abstracts of the Psychonomic Society: 42nd Annual Meeting*, p. 73.
24. **McAuley, J. D.**, Miller, J. P., Beck, E. V. , Nagy, Z. M. and Pang, K. C. H. (2001). Age-related changes in spontaneous motor timing in the SAMP8. *Society for Neuroscience Abstracts 27: Program Number 572.14*
25. Miller, J. P., **McAuley, J. D.**, Beck, E. V., Nagy Z. M. and Pang, K. C. H. (2001). A longitudinal study of age-related changes in the circadian rhythm of the SAMP8. *Society for Neuroscience Abstracts 27: Program 572. 14*.
26. Beck, E. V., Nagy, Z. M., **McAuley, J. D.**, and Pang, K. C. H. (2000). Age related changes in the spontaneous timing of senescence-accelerated mice as measured by run-wheel behaviors. *Society for Neuroscience Abstracts*, 26:1519.
27. **McAuley, J. D.**, Stevens, C. J. and Humphreys, M. S. (2000). The use of relational information in melody recognition. *Abstracts of the Psychonomic Society: 41th Annual Meeting*, p. 71.
28. Klopfer, D. S. and **McAuley, J. D.** (2000). Entrainment of attention and performance on the Stroop task. *Abstracts of the Psychonomic Society: 41th Annual Meeting*, p. 41.

29. **McAuley, J. D.** and Jones, M. R. (1999). Sustained event-based attending in a time judgment task. *Abstracts of the Psychonomic Society: 40th Annual Meeting*, p. 63.
30. **McAuley, J. D.** (1999). Rhythm, expectancy, and time judgments: Some “surprising” results. *Journal of the Acoustical Society of America*, 106 (4). p. 2260.
31. **McAuley, J. D.** and Jones, M. R. (1998). Temporally-directed attention in judgments of relative tempo. *Abstracts of the Psychonomic Society: 39th Annual Meeting*, p. 44.
32. **McAuley, J. D.** and Kidd, G. R. (1997). The role of rhythmic expectancy in tempo discrimination. *Australian Journal of Psychology*, 49 (supplement), p. 17.
33. Dennis, S., **McAuley, J. D.** and Wiles, J. (1997). Connectionist models of cognition: Teaching with BrainWave (a java-based neural network simulator). *Australian Journal of Psychology*, 49 (supplement), p. 8.
34. **McAuley, J. D.** and Kidd, G. R. (1996). Effect of deviations from temporal expectations on tempo discrimination. *Journal of the Acoustical Society of America*, 100 (4), p. 2584.
35. **McAuley, J. D.** and Sheridan, S. (1996). Entrainment versus clock models of temporal tracking. *Abstracts of the Psychonomics Society: 37th Annual Meeting*, p 8.
36. **McAuley, J. D.** and Kidd, G. R. (1995). Temporally directed attending in the discrimination of tempo: Further evidence for an entrainment model. *Journal of the Acoustical Society of America*, 97 (5), p. 3278.
37. **McAuley, J. D.** and Kidd, G. R. (1994). Differential sensitivity to increases and decreases in tempo: Evidence for an entrainment model. *Journal of the Acoustical Society of America*, 96 (5), p. 3257.
38. **McAuley, J. D.** (1994). An entrainment model of human time perception. *Journal of the Acoustical Society of America*, 95 (5), p. 2966.

INVITED TALKS

1. *Neural bases of individual differences in timing: Does the beat go on for everyone?* Presented to the Department of Psychology, University of Massachusetts, Amherst, MA, July 9, 2008.
2. *Neural bases of individual differences in timing: Does the beat go on for everyone?* Presented to the Department of Psychology, Ohio State University, Columbus, Ohio, May 16, 2008.
3. *Neural bases of individual differences in timing: Does the beat go on for everyone?* Presented to the Department of Psychology, University of Cincinnati, Cincinnati, Ohio, March 14, 2008.
4. *Individual differences in timing and temporal processing: Support for distinct interval and beat-based ‘modes’ of listening.* Presented at the Acquisition of Linguistic Organization and Human Audition (ALOHA) Workshop of the Acoustical Society of America Meeting, Honolulu, Hawaii, November 26, 2006.
5. *An entrainment perspective on timing.* Presented to the Laboratoire de Neurosciences Cognitives & Imagerie Cerebrale, CNRS, Paris, France, July, 3, 2006.
6. *Measuring entrainment: Some methods and issues.* Presented at the Entrainment Network III, University of Cambridge, UK, December, 2005.
7. *Human judgments about time and rhythm.* Presented at the Symposium on Processing Temporal Information, Fechner Day, Traverse City, Michigan, October, 2005.

8. *Time of our lives: Lifespan development of timing and temporal tracking*. Presented at the Action Club, Penn State University, State College, Pennsylvania, September, 2005.
9. *Time of our lives: Changes in preferred tempi and regions of entrainment across the lifespan*. Presented at the Entrainment Network II, Ohio State University, Columbus, Ohio, April, 2005.
10. *Time in the mind: Hourglass or oscillator?* Presented to the Department of Psychology, Ohio State University, Columbus, Ohio, April, 2004.
11. *Play it again: the role of stimulus familiarity in the formation of episodic memories for music*. Presented at the Indiana University Cognitive Science Colloquium Series, Indiana University, Bloomington, Indiana, December, 2002.
12. *Developmental aspects of timing control in rhythmic tapping: A lifespan perspective*. Presented at the Cognitive Science Program Seminar Series, Ohio State University, Columbus, Ohio, November, 2002.
13. *Rhythmic expectations of beginnings and endings*. Presented at the Australian Music Psychology Seminar Series, University of New South Wales, Sydney, NSW, Australia, August, 1999.
14. *On and off the beat: Some surprising results*. Presented at the Music Cognition Workshop, Ohio State University, Columbus, Ohio, May, 1999.
15. *Attentional tracking of auditory patterns*. Presented at the Workshop on Auditory Event Temporal Structure, Advanced Telecommunications Research Institute, Kansai, Japan, October, 1998.
16. *The role of rhythm in attending to auditory patterns*. Presented at the 5th International Conference on Neural Information Processing, Kitakyushu, Japan, October, 1998.
17. *Music and memory*. Presented at the Music Cognition Workshop, Ohio State University, Columbus, Ohio, May, 1998.
18. *Context effects in time discrimination*. Presented to the Department of Psychology, University of Southern Queensland, Toowoomba, QLD, Australia, November, 1997.
19. *Expectancy and time discrimination*. Presented at the Australian Music Psychology Seminar Series, Department of Psychology, University of New South Wales, Sydney, NSW, Australia, June, 1997.
20. *BrainWave: A java-based connectionist simulator*. Presented at the Mind and Computation Colloquium Series, Department of Computer Science, Indiana University, Bloomington, November, 1996.

UNPUBLISHED CONFERENCE PRESENTATIONS AND TALKS

1. **McAuley, J. D.** (2008). Neural bases of individual differences in timing: Does the beat on for everyone. Paper presented at the New England Sequence and Timing Meeting, Haskins Laboratories, New Haven, Connecticut, March 8, 2008.
2. **McAuley, J. D.** and Grahn, J. (2007). Neural correlates of individual differences in beat perception. Paper presented at the 6th Annual Auditory Perception, Cognition and Action Meeting, San Diego, CA, November 15, 2007.
3. Henry, M. J., Zaleha, M. and **McAuley, J.D.** (2007). Increasing pitch velocity increases the magnitude of the auditory tau effect. Poster presented at the 6th Annual Auditory Perception, Cognition and Action Meeting, San Diego, CA, November 15, 2007.

4. Miller, N. and McAuley, J. D. (2007). Repeating the standard interval weakens expectancy profiles in time judgment tasks. Poster presented at the 6th Annual Auditory Perception, Cognition and Action Meeting, San Diego, CA, November 15, 2007.
5. Curtindale, L. M. and **McAuley, J. D.** (2007). Sustained visual attention in children and adults: The role of event rate and temporal expectancy. Poster presented at the Society for Research on Child Development Biennial Meeting, Boston, MA, March 29 – April 1, 2007.
6. Henry, M. J. and **McAuley, J.D.** (2007). The role of imputed velocity in the auditory kappa effect. Paper presented at the New England Sequence and Timing Meeting, Haskins Laboratories, New Haven, Connecticut, March 17, 2007.
7. Henry, M. J. and **McAuley, J.D.** (2006). The relative contribution of local and global velocity to the auditory kappa effect. Paper presented at the 5th Annual Auditory Perception, Cognition and Action Meeting, Houston, Texas, November 16, 2006.
8. Miller, N. S. and **McAuley, J. D.** (2006). How easy is it to ignore rhythmic context when making time judgments? Poster presented at the 5th Annual Auditory Perception, Cognition and Action Meeting, Houston, Texas, November 16, 2006.
9. **McAuley, J. D.**, Stewart, A. L. and Seubert, S. M. (2006). Individual differences in synchronization behavior of children and adults. Poster presented at the 5th Annual Auditory Perception, Cognition and Action Meeting, Houston, Texas, November 16, 2006.
10. **McAuley, J. D.** (2006). The time of our lives: An entrainment perspective. Paper presented at the Symposium in Honor of Mari Riess Jones, Columbus, OH, June 27, 2006.
11. **McAuley, J. D.** (2006). Detecting changes in the timing of auditory sequences: Evidence for both beat-based and interval-based modes of listening. Paper presented at the New England Sequence and Timing Meeting, Haskins Laboratories, New Haven, Connecticut, March 11, 2006.
12. **McAuley, J. D.**, Miller, J. P. and Pang, K. C. H. (2006). Effects of the NMDA antagonist MK-801 on short-interval timing in rats. Paper presented at the New England Sequence and Timing Meeting, Haskins Laboratories, New Haven, Connecticut, March 11, 2006.
13. Miller, N. S. and **McAuley, J. D.** (2005). Effect of extend temporal context on sensitivity to event tempo, Poster presented at the 4th Annual Auditory Perception, Cognition and Action Meeting, Toronto, Ontario, November 10, 2005.
14. Curtindale, L., Kosakowski, L., Miller, N. S. and **McAuley, J. D.** (2004). Controlling the clock during auditory event timing. Poster presented at the 3rd Auditory Perception Cognition and Action Meeting, Minneapolis, MN, November, 2004.
15. Miller, J. P., **McAuley, J. D.** and Pang, K. C. H. (2004). Effect of age on cellular activity in the suprachiasmatic nucleus of the senescence-accelerated mouse (SAMP8). Poster presented at the Medical College of Ohio Neurology/Neurobiology Research Day, Toledo, OH, March, 2004.
16. **McAuley, J. D.**, Miller, J. P., Wright, K., Wang, M. and Pang, K. C. H. (2004). A comparison of simultaneous temporal processing in young and elderly rats and humans. Poster presented at the Medical College of Ohio Neurology/Neurobiology Research Day, Toledo, OH, March, 2004.
17. **McAuley, J. D.** and Pang, K. C. H. (2004). Concurrent timing of auditory and visual events in humans and rats. Paper presented at the New England Sequence and Timing Meeting, Yale University, New Haven, Connecticut, March, 2004.

18. Dilley, L. C. and **McAuley, J. D.** (2003). What makes speech sound rhythmic? Poster presented at the 2nd Auditory Perception Cognition and Action Meeting, Vancouver, British Columbia, November, 2003.
19. Borawski, S. and **McAuley, J. D.** (2003). Time out: Effects of breaks on time estimation. Poster presented at the 2nd Auditory Perception Cognition and Action Meeting, Vancouver, British Columbia, November, 2003.
20. **McAuley, J. D.**, Jones, M. R., Holub, S., Miller, N. S., and Moynihan, H. (2003). Effects of age and tempo in the timing control of rhythmic performance. Paper presented at the Annual Meeting of the Society for Music Perception and Cognition, Las Vegas, Nevada, June, 2003.
21. **McAuley, J. D.** (2003). Timing across the lifespan: Effects of age on the brain's clock. Paper presented at the New England Sequence and Timing Meeting, Yale University, New Haven, Connecticut, March, 2003.
22. Ayala, C. and **McAuley, J. D.** (2002). What words come to mind when listening to music? Poster presented at the 1st Auditory Perception Cognition and Action Meeting, Kansas City, Missouri, November, 2002.
23. **McAuley, J. D.** (2002). Modeling rhythmic expectations in short-interval timing: A comparison of entrainment and interval-based approaches to time perception. Paper presented at the New England Sequence and Timing Meeting, Yale University, New Haven, Connecticut, March, 2002.
24. **McAuley, J. D.**, Beck E., Miller, J. P., Nagy, Z. M. and Pang, K. C. H. (2001). Age-related changes in the timing behavior of the senescence accelerated mouse (SAMP8). Oral presentation at the New England Sequence and Timing Meeting, Yale University, New Haven, Connecticut, March, 2001.
25. Beck, E. V., **McAuley, J. D.**, Miller, J. P., Nagy, Z. M. and Pang, K. C. H. (2001). Age-related changes in run-wheel behaviors in senescence accelerated mice. Poster presented at the 8th Annual Research Symposium at the Medical College of Ohio, Toledo, Ohio, March, 2001.
26. **McAuley, J. D.** and Jones, M. R. (2000). Contextual effects in timing judgments. Paper presented at the New England Sequence and Timing Meeting, Yale University, New Haven, Connecticut, March, 2000.
27. **McAuley, J. D.** and Jones, M. R. (1999). Rhythmic expectations of beginnings and endings. Paper presented at the Meeting of the Society for Music Perception and Cognition in Evanston, Illinois, August, 1999.
28. **McAuley, J. D.** (1998). Beyond Weber's law in time discrimination. Paper presented at the Netherlands Institute for Advanced Study Workshop on Rhythm Perception and Production in Wassenaar, the Netherlands, July, 1998.
29. Stevens, C. J. and **McAuley, J. D.** (1998). Episodic memory for music: The manipulation of melody and text as relational information. Paper presented at the 25th Australian Experimental Psychology Conference in Hobart, Tasmania, April, 1998.
30. Sheridan, J. and **McAuley, J. D.**, and Bennett, S. (1998). Developmental aspects in the timing control of rhythmic tapping. Paper presented at the 25th Australian Experimental Psychology Conference in Hobart, Tasmania, April, 1998.
31. Dennis, S. and **McAuley, J. D.** (1997). Simulation of connectionist models using BrainWave. Paper presentation at the Fourth Conference of the Australasian Cognitive Science Society in Newcastle, New South Wales, September, 1997.

32. **McAuley, J. D.** and Kidd, G. R. (1997). The role of rhythmic expectancy in tempo discrimination. Paper presented at the 24th Australian Experimental Psychology Conference in Geelong, Victoria, April, 1997.
33. Dennis, S., **McAuley, J. D.** and Wiles, J. (1997). Connectionist models of cognition: Teaching with BrainWave (a java-based neural network simulator). Paper presented at the 24th Australian Experimental Psychology Conference in Geelong, Victoria, April, 1997.
34. Sheridan, J. and **McAuley, J. D.** (1997). Assessment of timing ability of children with autistic spectrum disorder. Paper presented at the Biennial Autistic Conference in New South Wales, Australia, March, 1997.
35. Wiles, J. and **McAuley, J. D.** (1996). Memory, time, change and structure in artificial neural networks: Distilling cognitive models into their functional components. Paper presented at the Seventh Australian Conference on Neural Networks in Canberra, Australian Capital Territory, April, 1996.

TEACHING EXPERIENCE

Bowling Green State University (1999 – Present)

<u>Course</u>	<u>Level</u>	<u>Frequency</u>
Introduction to Cognitive Science	Undergraduate	1
Neural Computation	Undergraduate	1
Psychology of Space and Time	Undergraduate	2
Research Methods	Undergraduate	1
Sensation and Perception	Undergraduate	8
Quantitative Methods I	Undergraduate	9
Analysis of Variance	Graduate	4
Circular Statistics	Graduate	1
Cognitive Development	Graduate	2
Cognitive Psychology	Graduate	1
Dynamic Systems	Graduate	1
Neural Computation	Graduate	1
Psychological Approaches to Tempo and Rhythm	Graduate	1
Timing and Development	Graduate	1
Sensation and Perception	Graduate	3

Masters and Ph.D. Theses Supervised

Christopher Ayala, M.A., 2004
Steven Borawski, M.A., 2006
Lori M. Curtindale, M.A., 2007
Molly J. Henry¹, M.A., 2007, Ph.D. (in progress)
Ann Mary Mercier, M.A., 2007, Ph.D. (in progress)
Jonathan P. Miller, Ph.D., 2005
Nathaniel S. Miller, M.A., 2004, Ph.D. (in progress)
Louis Vinke, M.A. (in progress)

University and Department Undergraduate Honors Theses Supervised

Laren Conklin², 2006
Allison Skinner, 2006
Amanda Stewart, 2007

Summer Undergraduate Research Scholars

Laren Conklin, 2006
Bryan Grushcow, 2008
Amanda Stewart, 2006
Marta Zaleha, 2007

¹ Received 2007 Graduate College Shanklin Award for Research Excellence

² Received 2006 Mayeux Award for Best University Honor's Thesis.

University of Queensland (1995 – 1997)

Course	Level	Frequency
Introduction to Neural Networks	Undergraduate	2
Language, Thought, and Representation	Undergraduate	1

Curriculum development

Course	Level	When
Circular Statistics	Graduate	Spring 2005
Timing and Development	Graduate	Fall 2004
Neural Computation	Graduate	Fall 2001
Psychological Approaches to Tempo and Rhythm	Graduate	Fall 1999

Other

Instructor, Tutorial Workshop on Music and Dynamics Society for Music Perception and Cognition, San Diego CA	2005
Instructor, Tutorial Workshop on Connectionist Models The Ohio State University, Columbus, Ohio	1998
Instructor, Tutorial workshop on connectionist models University of Queensland, Brisbane, Australia	1997
Teaching Assistant, Department of Computer Science Indiana University, Bloomington	1989 – 1990

SOFTWARE AND TEACHING MATERIALS

1. BrainWave V1.1, Simon Dennis and Devin McAuley (Copyright 1996)
2. Neural Networks by Example, Simon Dennis and Devin McAuley (Copyright 1997)
3. Connectionist Models of Cognition, Simon Dennis and Devin McAuley (Copyright 1999)

PROFESSIONAL MEMBERSHIPS

Acoustical Society of America
 American Psychological Association, Member
 American Psychological Society, Member
 Cognitive Science Society
 International Society for Psychophysics
 Midwest Psychological Association
 Psychonomic Society, Member
 Sigma Xi, Scientific Research Honor Society, Member
 Society for Music Perception and Cognition, Member
 Society for Neuroscience, Member

SERVICE

Bowling Green State University

Director, Center for Neuroscience, Mind, and Behavior	2005 – Present
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Office of Research Collaboration Advisory Board	2006 – Present
University Human Subjects Review Board	2003 – 2007
Treasurer, Bowling Green Chapter of Sigma Xi	2004 – Present
Chair, Cognitive Neuroscience Search Committee	2006 – 2007
Outstanding Young Scholar Review Committee	2005
Panel Member – Setting Research Priorities for New Faculty	2005
Experimental Psychology Graduate Admissions Committee	2004 – 2005
Chair, Experimental Psychology Graduate Admissions Committee	2003 – 2004
Department Salary, Promotion and Tenure Committee	2002 – 2003
Chair, Subject Pool Committee	2001 – Present
Subject Pool Administrator	2001 – Present
Chair, Experimental Psychology Graduate Admissions Committee	2001 – 2002
Behavioral Neuroscience Faculty Search Committee	2000 – 2001
Department Colloquium Committee	1999 – 2005
Experimental Psychology Graduate Admissions Committee	1999 – 2000

University of Queensland

Chair, Cognitive Science Colloquium Committee	1996 – 1997
Webmaster, Cognitive Science Web Site	1996 – 1997

Profession

Editorial positions

Consulting Editor, Perception & Psychophysics	2008 – Present
Board of Editors, International Journal of Force Effectiveness and Analysis	2008 – Present

Grant reviews

NIH, Cognition and Perception Study Section, Temporary Member	2006 – 2007
NSF, Cognitive Neuroscience (ad hoc)	

Manuscript reviews (ad hoc)

Acta Psychologica	
Brain Research	
British Journal of Developmental Psychology	
Canadian Journal of Experimental Psychology	
Cognition	
Cognitive Brain Research	
Cognitive Development	
Cognitive Science Society	
Cortex	
International Conference on Music Perception and Cognition	
Journal of Experimental Psychology: Child Development	
Journal of Experimental Psychology: General	
Journal of Experimental Psychology: Human Perception and Performance	
Journal of New Music Research	
Journal of Phonetics	
Learning and Memory	

Memory and Cognition
 Music Perception
 Neural Information Processing Letters
 Neuroscience Letters
 Perception
 Perception & Psychophysics
 Psychological Research
 Psychonomic Bulletin & Review
 Quarterly Journal of Experimental Psychology

Conference, workshop, symposium organization

Auditory Perception, Cognition and Action Meeting, Program Committee Houston, TX	2007
Symposium in Honor of Mari Riess Jones, Chair and organizer The Ohio State University, Columbus, OH	2006
Auditory Perception, Cognition and Action Meeting, Program Committee Houston, TX	2006
Auditory Perception, Cognition and Action Meeting, Program Chair Toronto, Ontario	2005
Music and Dynamics Workshop, SMPC, Co-chair and Co-organizer The Neurosciences Institute, San Diego, CA	2005
Auditory Perception, Cognition and Action Meeting, Program Chair Minneapolis, MN	2004
Auditory Perception, Cognition and Action Meeting, Program Committee Vancouver, BC	2003
Tutorial workshop: "Connectionist models of cognition", Co-organizer The Ohio State University, Columbus, OH	1998
Tutorial workshop: "Connectionist models of cognition", Co-organizer University of Queensland, Brisbane, Australia	1997
Symposium: "Rhythm in music and speech", Chair and organizer International Congress on Acoustics, Seattle, WA	1998
Symposium: "Rhythm in cognition", Chair and organizer Annual Meeting of the Cognitive Science Society, San Diego, CA	1996
Tutorial workshop: "Memory, time, change, and structure in neural networks" Australian Conference on Neural Networks, Canberra, Australia	1996

Other

Session chair, 2nd Auditory Perception Cognition & Action Meeting, Vancouver, 2002
 Session chair, 5th International Conference on Neural Information Processing, Japan, 1998
 Session chair, International Congress on Acoustics, Seattle, 1998

Developed auditory perception exhibit for the Australian Science Show, Brisbane, 1996
Program committee for Midwest connectionism workshop, Bloomington, IN, 1993

REFERENCES

1. Dr. Mari Riess Jones
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3. Dr. David Rosenbaum
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4. Dr. Sheryl Coombs
Professor of Biological Sciences
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