

Angela M. AuBuchon

Curriculum Vitae

October, 12 2017

Institutional Address

Center for Childhood Deafness, Language, and Learning
Boys Town National Research Hospital
555 North 30th Street
Omaha, NE 68131
Angela.AuBuchon@boystown.org

EDUCATION

- 2015 Postdoctoral Fellow, Indiana University, Speech Research Laboratory,
Mentor: David B. Pisoni
- 2012 Ph.D., University of Missouri, Psychological Sciences (area: Cognition and
Neuroscience), Dissertation: *Differentiating a chunk from a group: The role of verbal
rehearsal in creating a hierarchical list structure* Chair: Nelson Cowan
- 2009 M.A., University of Missouri, Psychological Sciences
- 2004 B.A., Saint Louis University; Sociology, Psychology

PROFESSIONAL APPOINTMENTS

- 2017-present Boys Town National Research Hospital
Center for Childhood Deafness, Language and Learning
Director, Working Memory and Language Laboratory
- 2015-2017: Visiting Assistant Professor
Department of Psychology and Brain Sciences
Indiana University, Bloomington
- 2012- 2015: Postdoctoral Researcher
Speech Research Laboratory
Department of Psychology and Brain Sciences
Indiana University, Bloomington

RESEARCH SUPPORT

Completed in past 5 years

PHS NIDCD/R01 DC00111-36

- *Title:* Speech Perception and Spoken Word Recognition
- *Principal Investigator:* Pisoni
- *Funding Dates for grant:* 07/01/11-06/30/16; *Funding dates for fellowship:* 09/01/14 to 07/01/15; 50%
- *Description:* This research project deals with speech perception, analysis, synthesis and spoken word recognition. The major goal is to seek a better understanding of how spoken language is perceived and comprehended by human listeners.
- *Role:* Post-Doctoral Fellow

PHS NIDCD/R01 DC009581-05

- *Title:* Neurocognitive Processes in Deaf Children with Cochlear Implants
- *Co-Principal Investigators:* Pisoni & Kronenberger
- *Funding Dates for grant:* 09/01/09-08/30/15; *Funding dates for fellowship:* 09/01/14 to 07/01/15; 50%
- *Description:* The goal of this project is to obtain new fundamental knowledge about the development of neurocognitive processes underlying individual differences in speech and language outcomes in deaf children with cochlear implants. Specific Aim 1 is concerned with long-term neuropsychological outcomes in early-implanted long-term CI-users; Specific Aim 2 investigates the development of executive-organizational integrative functions in 3-7 year-old deaf children with CIs.
- *Role:* Post-Doctoral Fellow

PHS NIDCD/T32 DC00012-35

- *Title:* Training in Speech, Hearing, and Sensory Communication
- *Project Director:* Pisoni
- *Funding Dates for grant:* 07/01/99–06/30/15; *Funding dates for fellowship:* 09/01/12 to 08/31/14
- *Description:* This T32 institutional training grant from NIDCD provides support for the multidisciplinary training program in Speech, Hearing and Sensory Communication at Indiana University. The objective of this training program is to provide specialized research training in the Communication Sciences and Disorders for postdoctoral (MDs and PhDs), predoctoral, and short-term summer medical student trainees.
- *Role:* Post-Doctoral Trainee

PUBLICATIONS

Refereed Journal Articles

AuBuchon, A.M., Pisoni, D.B. & Kronenberger, W.G. (2015). Short-Term and Working Memory Impairments in Early-Implanted, Long-Term Cochlear Implant Users are Independent of Audibility and Speech Production. *Ear and Hearing*, 36(6), 733-737.

AuBuchon, A. M., Pisoni, D. B., & Kronenberger, W. G. (2015). Verbal Processing Speed and Executive Functioning in Long-Term Cochlear Implant Users. *Journal of Speech, Language, and Hearing Research*, 58(1), 151-162.

- Montag, J. L., **AuBuchon, A. M.**, Pisoni, D. B., & Kronenberger, W. G. (2014). Speech intelligibility in deaf children after long-term cochlear implant use. *Journal of Speech, Language, and Hearing Research, 57*(6), 2332-2343.
- Cowan, N., **AuBuchon, A.M.**, Gilchrist, A.L., Ricker, T.J., & Saults, J.S. (2011). Age differences in visual working memory capacity: Not based on encoding limitations. *Developmental Science, 14*, 1066-1074.
- Cowan, N., Hismjatullina, A., **AuBuchon, A.M.**, Saults, J.S., Horton, N., Leadbitter, K., & Towse, J. (2010). With development, list recall includes more chunks, not just larger ones. *Developmental Psychology, 46*(5), 1119-1131.
- Cowan, N., Morey, C. C., **AuBuchon, A. M.**, Zwilling, C. E., & Gilchrist, A. L. (2010). Seven-year-olds allocate attention like adults do unless working memory is overloaded. *Developmental Science, 13*, 120-133.
- Cowan N. & **AuBuchon A. M.** (2008). Short-term memory loss over time without retroactive stimulus interference. *Psychonomic Bulletin & Review, 15*, 230-235.

Book Chapters

- AuBuchon, A.M.** & Pisoni, D.B. (2016). Verbal working memory in cochlear implant users. In N. Young and K. Kirk (Eds.), *Cochlear Implant in Children: Learning and the Brain* (257-274). Philadelphia, PA: Springer.
- Cowan, N., Morey, C.C., **AuBuchon, A.M.**, Zwilling, C.E., & Gilchrist, A.L., & Saults, J.S. (2011). New insights into an old problem: Distinguishing storage from processing in the development of working memory. In P. Barrouillet & V. Gaillard (Eds.), *Cognitive development and working memory: From neo-Piagetian to cognitive approaches* pp.137-150). New York, NY: Psychology Press.
- Ricker, T., **AuBuchon, A. M.**, Cowan, N. (2010). Working memory. In L. Nadel (ed.) *Wiley Interdisciplinary Reviews: Cognitive Science*.

CONFERENCE and COLLOQUIA ACTIVITY

- 2014, **AuBuchon, A.M.**, Pisoni, D.B., & Kronenberger, W.K. "Covert, not Overt, Linguistic Processing Leads to Working Memory Disturbances in Long-Term Cochlear Implant Users." 14th Symposium on Cochlear Implants in Children, Nashville, TN (Dec 11-13)
- 2013, **AuBuchon, A.M.** and Montag, J. "Verbal Rehearsal Speed and Speech Intelligibility in Cochlear Implant Users: Long Term Outcomes." DeVault Otologic Research Laboratory Colloquia, Indianapolis, IN. (December 11)
- 2013, **AuBuchon, A.M.** The Hue and Cry of Working Memory and Its Role in the Processing of Speech. DeVault Otologic Research Laboratory Colloquia, Indianapolis, IN. (January 30)

- 2011, **AuBuchon, A.M.**, and Cowan, N. “Chunking in Working Memory Does Not Depend on Rehearsal.” 52nd Annual Meeting of the Psychonomic Society, Seattle, WA (Nov 3 – 6)
- 2011, Clark, T., Moehrle, N., Murphy, A., Cowan, N., & **AuBuchon, A.** “Working Memory of Images: Effects of Grouping and Rehearsal” Invited Presentation, Office of the Director of National Intelligence IC CAE Regional Colloquium (April 12)
- 2009, **AuBuchon, A. M.**, & Cowan, N. “Remembering and forgetting concurrently: New benefits of high working memory span.” Poster presented at the 50th Annual Meeting of the Psychonomic Society, Boston, MA (Nov 19-22).
- 2009, Cowan, N., Morey, C. C., **AuBuchon, A. M.**, Zwilling, C. E., & Gilchrist, A. L. “New insights into an old Problem: Distinguishing storage from processing in the development of working memory.” Biennial Meeting of the Society for Research in Child Development, Denver. (April 2-4)

TEACHING EXPERIENCE

Indiana University

- Introduction to Psychology I (Fall 2015, two sections Fall 2016, two section Spring 2017)
 Introduction to Psychological and Brain Sciences (two sections Spring 2016, Fall 2016)
 Statistical Techniques (Fall 2015, Spring 2016, Spring 2017)
 Cognitive Psychology (Spring 2017)

University of Missouri

- Psychology and Human Behavior Freshman Interest Group (Fall, 2009-2011)
 Research Methods I, (Fall 2009 and Spring 2010)

Missouri Scholars Academy, Governor’s School of the Missouri Department of Elementary and Secondary Education,

- Make up Your Mind (Cognitive Neuroscience seminar, summer 2016)
 Order out of Chaos (Statistics and Probability lab, summer 2016)
 Law Instead of Order (Psychology and Law seminar, summer 2012)
 Community Service Coordinator (summer 2011)
 The Thinking Brain (Cognitive Neuroscience seminar, summers 2009-2011)

AWARDS and HONORS

- 2011 Research and Creative Activities Forum, 2nd Place Behavioral Science Category, Graduate Professional Council, University of Missouri
 2011 Standing Ovation Award, Missouri Scholars Academy
 2009-11 E&E Funding, College of Arts and Sciences, University of Missouri
 2009 Travel Award, Graduate Professional Council, University of Missouri
 2011 Travel Award, Graduate Professional Council, University of Missouri
 2010 Rollins Society, Graduate Professional Council, University of Missouri

- 2009 Research and Creative Activities Forum, 2nd Place Behavioral Sciences Category, Graduate Professional Council, University of Missouri
- 2009 Robert S. Daniel Teaching Fellow, Department of Psychology, University of Missouri

PROFESSIONAL SERVICE

- Ongoing: Ad hoc Reviewer: Canadian Journal of Experimental Psychology, Journal of the Acoustical Society of America, Journal of Experimental Child Psychology, Journal of Cognitive Psychology, Language Learning
- 2011 Reviewer, American Psychological Association Graduate Students, Scott Mesh Dissertation Grant,
- 2010-12 Convention Committee, American Psychological Association Graduate Students, American Psychological Association
- 2009-11 Graduate Student Representative, Division 3 (Experimental Psychology), American Psychological Association

UNIVERSITY SERVICE

- 2009-10 Graduate Student Representative, Search Committee for the Vice-Provost for Advanced Studies and Dean of the Graduate School, University of Missouri
- 2009-10 Graduate Student Representative, Graduate Faculty Senate, University of Missouri
- 2009-10 President, Graduate Student Association, University of Missouri
- 2008-09 Psychological Sciences Representative, Graduate Professional Council, University of Missouri
- 2007-09 Student Fee Capital Improvement Fund Committee, University of Missouri
- 2006-09 Graduate/Professional Student Travel Awards Committee, University of Missouri
- 2007-08 Programming and Publicity Coordinator, Graduate Professional Council, University of Missouri
- 2006-07 Psychological Sciences Representative, Graduate Professional Council, University of Missouri

PROFESSIONAL EXPERIENCE

- *Team Leader for Community Integration Services*, Judevine Center for Autism, St. Louis, MO, January 2005-August 2005
- *Program Manager for Supported Living Arrangements*, Judevine Center for Autism, St. Louis, MO, May 2004-December 2004
- *ABA Therapist*, Special School District, St. Louis County, MO, October 2003-May 2004
- *ABA Therapist*, Missouri Firststeps, St. Louis, MO, May 2003-October 2003

COMMUNITY INVOLVEMENT

- *Court Appointed Special Advocate*, Monroe County CASA, Bloomington, IN, 2015-present
- *Discovery Coach*, WonderLab Museum of Science, Health, & Technology, Bloomington, IN, 2014-present
- *Children's Liturgy Coordinator*, St. Paul's Catholic Center, Bloomington, IN, 2012-2014