

———— CONTACT INFORMATION

Communication Sciences & Disorders
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———— EMPLOYMENT

Current Visiting Assistant Professor, Northwestern University
Dept. of Communication Sciences and Disorders

———— EDUCATION

2014 **Ph.D.**, *Communication Sciences & Disorders*
Northwestern University, Evanston, IL, USA
Cognitive Science Specialization

Dissertation Title: Bilingual Spoken Language Comprehension - A Computational and Empirical Study of Lexical Semantic Processing in Bilinguals

Committee: Dr. Viorica Marian (Advisor), Dr. Cynthia K. Thompson, Dr. Patrick C. M. Wong (Chinese University of Hong Kong), and Dr. Jeffrey Elman (University of California, San Diego)

2014 **M.A.**, *Communication Sciences & Disorders, Non-Clinical*
Northwestern University, Evanston, IL, USA

2006 **B.A.**, *Brain & Cognitive Sciences*
University of Rochester, Rochester, NY, USA

———— RESEARCH INTERESTS

Cognition, Language Comprehension, Psycholinguistics, Computational Modeling, Language Interaction, Eye-Tracking, Perception, Bilingualism, Culture & Language

———— PEER-REVIEWED JOURNAL ARTICLES

1. **Shook, A.**, Goldrick, M., Engstler, C., & Marian, V. (accepted pending revision) Bilinguals show a disadvantage in lexical access during spoken sentence comprehension. *Journal of Psycholinguistic Research*.
2. Giezen, M. R., Blumenfeld, H. K., **Shook, A.**, Marian, V., Emmorey, K. (in revision). Parallel language activation and inhibitory control in bimodal bilinguals. *Cognition*.
3. Schroeder, S. R., Marian, V., **Shook, A.**, & Bartolotti, J. (in revision). Effects of bilingualism and musicianship on executive control abilities.

4. **Shook, A.**, & Marian, V. (2013). The Bilingual Language Interaction Network for Comprehension of Speech. *Bilingualism: Language and Cognition*, 16(2), 304-324. doi: 10.1017/S1366728912000466
5. Marian, V., **Shook, A.**, & Schroeder, S. R. (2013). Bilingual two-way immersion programs benefit academic achievement. *Bilingual Research Journal*, 36(2), 167-186. doi:10.1080/15235882.2013.818075
6. **Shook, A.**, Bartolotti, J., Schroeder, S. R., & Marian, V. (2013). Musical experience influences novel language learning. *American Journal of Psychology*, 126, 95-104.
7. Marian, V., Bartolotti, J., Chabal, S., & **Shook, A.** (2012). CLEARPOND: Cross-Linguistic Easy-Access Resource for Phonological and Orthographic Neighborhood Densities, *PLoS ONE*, 7(8): e43230. doi:10.1371/journal.pone.004323
8. **Shook, A.**, & Marian, V. (2012). Bimodal bilinguals co-activate both languages during spoken comprehension. *Cognition*, 124, 314-324. doi: 10.1016/j.cognition.2012.05.014
9. Krizman, J., Marian, V., **Shook, A.**, Skoe, E., & Kraus, N. (2012). Subcortical encoding of sound is enhanced in bilinguals and relates to executive function advantages. *Proceedings of the National Academy of Sciences*, 109, 7877-7881. doi: 10.1073/pnas.1201575109
10. Bartolotti, J., Marian, V., Schroeder, S. R., & **Shook, A.** (2011). Bilingualism and inhibitory control influence statistical learning of novel word forms. *Frontiers in Cognition*, 2, 324, 1-9. doi: 10.3389/fpsyg.2011.00324

BOOK CHAPTERS, ARTICLES, AND CONFERENCE PROCEEDINGS

1. Freeman, M. R., **Shook, A.**, & Marian, V. (in press). Cognitive and emotional effects of bilingualism in adulthood. In E. Nicoladis & S. Montanari (Eds.), *Lifespan Perspectives on Bilingualism*. Berlin, Germany: De Gruyter.
2. Marian, V., & **Shook, A.** (2012). The cognitive benefits of being bilingual. *Cerebrum*, October. Retrieved from <http://dana.org/news/cerebrum/>
3. Bartolotti, J., Marian, V., Schroeder, S. R., & **Shook, A.** (2011). Statistical learning of a Morse code language is improved by bilingualism and inhibitory ability. In L. Carlson, C. Hoelscher, & T. Shipley (Eds.), *Proceedings of the 33rd Annual Meeting of the Cognitive Science Society* (pp. X885-890). Austin, TX: Cognitive Science Society.
4. **Shook A.**, & Marian V. (2010). Interactivity during spoken word recognition: Evidence from bimodal bilinguals. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Meeting of the Cognitive Science Society* (pp. 790-795). Austin, TX: Cognitive Science Society.
5. **Shook, A.**, & Marian, V. (2010). Language processing in bimodal bilinguals. In E. Caldwell (Ed.), *Bilinguals: Cognition, Education and Language Processing*, pp. 35-64. Hauppauge, NY: Nova Science.

Republished in Meinken, K. L. (Ed.), (2010). *Encyclopedia of Language and Linguistics*. NY: Nova Science, pp. 35-64.

Republished in Meineken, K.L. (Ed.), (2012). *Encyclopedia of Language and Linguistics*. NY: Nova Science, pp. 299-328.

Republished in Sun, M.K. (Ed.), (2012). *Trends in Cognitive Science*, NY: Nova Science, pp. 81-112.

MANUSCRIPTS UNDER PREPARATION

1. **Shook, A.**, & Marian, V. (in prep). Covert Activation of the Non-Target Language in Bilinguals.
2. **Shook, A.**, & Marian, V. (in prep). Mapping lexical tone to a non-tonal language: Lexical access in Mandarin-English bilinguals.
3. **Shook, A.**, & Marian, V. (in prep). Exploring the sources of covert co-activation in bilinguals.

CONFERENCE PRESENTATIONS

1. **Shook, A.**, & Marian, V., (2014, November). Automatic Activation of Translation Equivalents During Bilingual Spoken Comprehension. To be presented at the *Annual Meeting of the Psychonomic Society*, Long Beach, CA.
2. **Shook, A.**, & Marian, V. (2014, October). Language Co-Activation in Single-Language Contexts. To be presented at the *2014 University of Illinois-Chicago Bilingualism Forum*, Chicago, IL.
3. Marian, V., **Shook, A.**, Bartolotti, J., & Chabal, S. (2014, September) An Introduction to On-line Databases Using CLEARPOND: Cross-Linguistic Easy-Access Resource for Phonological and Orthographic Neighborhood Densities. Presented at the *9th International Workshop on Writing Systems and Literacy*, Brighton, UK.
4. **Shook, A.**, Bartolotti, J., Chabal, S., & Marian, V. (2013, November). CLEARPOND: Cross-Linguistic Easy-Access Resource for Phonological and Orthographic Neighborhood Densities. Presented at the *Annual Meeting of the Psychonomic Society*, Toronto, Canada.
5. **Shook, A.**, Bartolotti, J., Chabal, S., & Marian, V. (2013, July). CLEARPOND: Phonological and orthographic neighborhood information for multiple languages. Presented at the *35th Annual Meeting of the Cognitive Science Society*, Berlin, Germany.
6. Marian, V., **Shook, A.**, & Chabal, S. (2013, June). Language co-activation during bilingual processing: A behavioral and computational approach. Talk presented at the *International Symposium on Bilingualism 9*, Singapore.
7. **Shook, A.**, Bartolotti, J., Chabal, S., & Marian, V. (2013, June). CLEARPOND: Cross-Linguistic Easy-Access Resource for Phonological & Orthographic Neighborhood Density. Poster presented at the *International Symposium on Bilingualism 9*, Singapore.

8. Krizman, J., **Shook, A.**, Skoe, E., Marian, V., & Kraus, N. (2012, April) Speaking two languages promotes enhanced encoding of sound. Poster presented at the *24th Annual Convention of the Association for Psychological Science*. Chicago, IL.
9. Krizman, J., Marian, V., **Shook, A.**, & Kraus, N. (2012, April). Bilingual enhancements in sound processing relate to executive function advantages. Poster presented at the *Annual Meeting of the Cognitive Neuroscience Society*. Chicago, IL.
10. **Shook, A.**, & Marian, V. (2011, November). Spoken language comprehension in bilinguals: A computational approach. Paper presented at the *2011 American Speech-Language and Hearing Association Convention*. San Diego, CA.
11. Krizman, J., Marian, V., **Shook, A.**, Skoe, E., & Kraus, N. (2011, November). Bilinguals show enhanced subcortical representation of sound. *Abstracts of Advances and Perspectives in Auditory Neurophysiology Conference at the Society for Neuroscience Annual Meeting*. Washington, D.C.
12. **Shook, A.**, Marian, V., Krizman, J., & Kraus, N. (2011, November). Bilingual experience enhances subcortical encoding of sound. Poster presented at the *52nd Annual Meeting of the Psychonomic Society*. Seattle, WA.
13. Schroeder, S. R., Marian, V., **Shook, A.**, Bartolotti, J., & Chabal, S. (2011, November). Bilingual experience and inhibitory control influence novel-word learning. Poster presented at the *52nd Annual Meeting of the Psychonomic Society*. Seattle, WA.
14. **Shook, A.**, Marian, V., Bartolotti, J., Schroeder, S. R., & Chabal, S. (2011, July). The impact of musical experience on statistical language learning. Poster presented at the *33rd Annual Meeting of the Cognitive Science Society*. Boston, MA.
15. **Shook, A.**, & Marian, V. (2011, June). BLINCS: The bilingual language interaction network for comprehension of speech. Presented at the *8th International Symposium on Bilingualism*. Oslo, Norway.
16. **Shook, A.**, & Marian, V. (2011, June). Language co-activation across modalities: An eye-tracking study of bimodal bilinguals. Presented at the *8th International Symposium on Bilingualism*. Oslo, Norway.
17. **Shook, A.**, & Marian, V. (2011, May). Hearing words and thinking signs: Language co-activation across modalities. Poster presented at the *23rd Annual Convention of the Association for Psychological Science*. Washington, D.C.
18. **Shook, A.**, & Marian, V. (2011, May). Hearing signs: Activation of sign language when listening to English. Presented at the *2011 Meeting of the Midwestern Psychological Association*. Chicago, IL.
19. **Shook, A.**, Bartolotti, J., Schroeder, S. R., & Marian, V. (2011, April). Bilingual experience and inhibitory control benefit language learning. Presented at the *2011 UIC Bilingualism Forum*. Chicago, IL.

20. Marian, V., & **Shook, A.** (2010, November). Top-down processing in spoken word recognition: Evidence from bimodal bilinguals. Presented at the *51st Annual Meeting of the Psychonomic Society*. St. Louis, MO.
21. **Shook, A.**, & Marian V. (2010, April). Parallel processing in bimodal bilinguals. Paper presented at the *46th Annual Meeting of the Chicago Linguistics Society*. Chicago, IL.
22. **Shook, A.**, & Marian, V. (2009, July). Bilingual education and academic achievement. Poster presented at the *International Symposium on Bilingualism 7*. Utrecht, Netherlands.
23. Marian, V., & **Shook, A.** (2008, July). Bilingual two-way immersion benefits academic achievement. Poster presented at the *11th Annual Congress of the International Association for the Study of Child Language*. Edinburgh, Scotland.
24. Den Ouden, D.B., Fix, S., Riley, E., Rulf, K., **Shook, A.**, Parrish, T., & Thompson, C.K. (2007, June). Verb argument structure in movies and pictures: An fMRI study. Poster presented at the *13 Annual Meeting of the Organization for Human Brain Mapping*. Chicago, IL.

RESEARCH EXPERIENCE

- 2007-2014 *Bilingualism & Psycholinguistics Research Group*, Northwestern University
Principal Investigator: Dr. Viorica Marian
- 2007 *Speech Physiology Lab*, Northwestern University
Principal Investigator: Dr. Charles Larson
- 2006 *Aphasia & Neurolinguistics Research Laboratory*, Northwestern University
Principal Investigator: Dr. Cynthia K. Thompson
- 2004-2006 *Computational Cognition & Perception Laboratory*, University of Rochester
Principal Investigator: Dr. Robert A. Jacobs

TEACHING EXPERIENCE

INSTRUCTOR OF RECORD

- Northwestern University, Department of Communication Sciences & Disorders
- 2014 *Statistics in Communication Sciences and Disorders*

DIRECTED TEACHING

- Northwestern University, Department of Communication Sciences & Disorders
- 2011 *Culture, Language, & Learning*, under the supervision of Viorica Marian

GUEST LECTURER

- Northwestern University, Department of Communication Sciences & Disorders
- 2011 *Research Procedures in Communication Sciences & Disorders*

TEACHING ASSISTANT

Northwestern University, Department of Communication Sciences & Disorders

- 2009-2010 *Acoustic Phonetics*, with Jessica Maye, Ph.D.
2010 *Delivery Systems in Speech & Language Pathology*, with Frances Block, MA, CCC-SLP.
2007-2009 *Culture, Language, & Learning*, with Viorica Marian, Ph.D. and Renee Reilly, Ph.D., CCC-SLP.
2009 *Research Procedures in Communication Sciences & Disorders* with Cynthia K. Thompson, Ph.D.
2008 *Statistics in Communication Sciences & Disorders*, with Denise Drane, Ph.D.
2008 *Craniofacial Anomalies and Syndromes*, with Judith LeDuc, M.A. CCC-SLP.
2008 *Aphasia: Disorders of Language*, with Cynthia K. Thompson, Ph.D.
2007-2008 *The Scientific Exploration of Communication* with Jessica Maye, Ph.D., Charles Larson, Ph.D., and Patrick Wong, Ph.D.
2007 *Functional Neuroanatomy* with Patrick Wong, Ph.D.

University of Rochester, Department of Brain & Cognitive Sciences

- 2005 *Laboratory in Development and Learning* with Richard Aslin, Ph.D.

ADVISING & MENTORSHIP

David Chi, BS in Communication Sciences & Disorders, Northwestern University
Rucha Mehta, MD Candidate at Rosalind Franklin University Of Medicine & Science

Sana Ali, BS in Communication Sciences & Disorders, Northwestern University

TEACHING INTERESTS

- The Scientific Exploration of Communication
- Brain & Cognition
- Culture, Language, and Learning
- Language Learning & Development
- Language and Cognition
- Research Methods
- Statistics & Advanced Statistics
- Intro Psychology
- Cognitive Psychology
- Bilingualism and Language Processing
- Psycholinguistics

AD HOC REFEREE SERVICE

- *Journal of Memory and Language*
- *Psychological Research*
- *Journal of Cognitive Psychology*

- *Discourse Processes*
- *Bilingualism: Language & Cognition*
- *International Journal of Bilingualism*
- *Frontiers In Language Sciences*
- Annual Meeting of the Cognitive Science Society, 2011-2014
- UIC Bilingualism Forum, 2012-2014
- International Workshop on Bilingualism and Cognitive Control, 2013
- Architectures and Mechanisms for Language Processing Conference, 2012

GRANTS AND AWARDS

- **John D. and Lucille H. Clarke Scholarship.** Dissertation Year Fellowship. One year full tuition and stipend, 2010
- **Language and Cognition Fellowship.** First year doctoral award. One year full tuition and stipend, 2006
- **ISB8 Travel Grant, 2011**
International Symposium on Bilingualism 8 in Oslo, Norway.
- Northwestern University **Graduate School Travel Grant, 2011,**
Annual Meeting of the Cognitive Science Society in Boston, MA.
- Northwestern University **Cognitive Science Travel Grant, 2010,**
Annual Meeting of the Cognitive Science Society in Portland, OR.
- Northwestern University **Graduate School Travel Grant, 2010,**
Annual Meeting of the Cognitive Science Society in Portland, OR.
- Northwestern University **Graduate School Travel Grant, 2009,**
International Symposium on Bilingualism 7 in Utrecht, Netherlands.
- Northwestern University **Graduate School Travel Grant, 2008,**
International Congress for the Study of Child Language in Edinburgh, Scotland.

PROFESSIONAL MEMBERSHIP

Psychonomic Society
Cognitive Science Society
Women in Cognitive Science

ADDITIONAL SKILLS AND EXPERIENCE

- WEBSITE / DATABASE MANAGEMENT:
Cross Linguistic, Easy-Access Resource for Phonological and Orthographic Neighborhood Densities (CLEARPOND; <http://clearpond.northwestern.edu>)
- PROGRAMMING LANGUAGES:
 - MatLab, R, Perl, CSS/HTML
- EXPERIMENTAL APPLICATIONS:
Praat, SPSS, Psychtoolbox, EyeLink eye-tracking software, SuperLab, NIH Cognitive Assessment Toolbox, Standardized Psychometric Measures (e.g., WASI, CTOPP, PPVT)
- ADDITIONAL SOFTWARE EXPERIENCE:
LaTeX, Audacity, Adobe CS6 (Photoshop, Illustrator)