

SHAORONG YAN

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Department of Brain and Cognitive Sciences
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EDUCATION

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| 2016- | University of Rochester , Rochester, NY
Ph.D. Candidate, Department of Brain and Cognitive Sciences |
| 2015-2016 | University of Iowa , Iowa City, IA
Ph.D. Candidate, Department of Psychological and Brain Sciences |
| 2013-2015 | University of Iowa , Iowa City, IA
M.A. in Psychology, Department of Psychological and Brain Sciences |
| 2008-2012 | Peking University , Beijing, P. R. China
B.Sc. in Psychology, Department of Psychology
B.A. in Economics, Guanghua School of Management |

RESEARCH INTEREST

Generative models; Expectation making in sentence comprehension; Adaptation effect in different communicative contexts; Processing prosodic information.

RESEARCH EXPERIENCE

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| 2017.7 | Kavli Summer Institute in Cognitive Neuroscience
Selected and sponsored to attend lectures and lab sessions discussing computational perspectives in cognitive neuroscience research on language prediction and reinforcement learning. |
| 2016- | Research Assistant, KurTan Lab, Univ. of Rochester
Advisor: Dr. Mike Tanenhaus & Dr. Chigusa Kurumada
Research Projects: Contextual diversity effect in production and comprehension. Attribution of prediction errors to talker-specific characteristics.
Techniques: Behavioral, Eye-tracking |
| 2016- | Research Assistant, Human Language Processing Lab, Univ. of Rochester
Advisor: Dr. T. Florian Jaeger
Research Projects: Adaptation effect in processing syntactic anomalies and unpredicted word forms; Form-based predictions in sentence processing; Un-supervised speech adaptation.
Techniques: Behavioral, Eye-tracking, EEG/ERP |

- 2014.5 CHASE Summer School: The Dynamics of Music and Language
Selected and sponsored to attend symposium and workshops organized by UCMerced Center for Human Adaptive Systems and Environments on current issues in music and language dynamics and related topics in cognitive neuroscience.
- 2013-2016 Research Assistant, Language Processing in Context Lab, Univ. of Iowa
Advisor: Dr. Thomas Farmer
Research Projects: Adaptation effect in processing of syntactic anomalies and unpredicted word forms; Role of phonological typicality in sentence comprehension; Predictions about sub-lexical information in sentence processing; Priming effect in pragmatic inference.
Techniques: Eye-tracking
- 2010-2013 Research Assistant, Center for Brain and Cognitive Sciences, Peking Univ.
Advisor: Dr. Xiaolin Zhou
Research Projects: Access to word prosody in silent reading; How prosodic information facilitates topic structure building; On-line processing of long dependency in Chinese relative clauses.
Techniques: EEG/ERP

TEACHING EXPERIENCE

Teaching Assistant

- 2016 Spring Research Methods & Design, Univ. of Iowa
- 2015 Fall Introduction to Cognitive Psychology, Univ. of Iowa

RELEVANT COURSEWORK

Graduate: Information Theory; Methods in Data-Enabled Research into Human Behavior and its Cognitive and Neural Mechanisms; Seminar: Models and Mechanisms of Language learning, Auditory Neuroscience, Cognitive Neuroscience of Frontal Lobe Function, Cognitive Science Language Proseminar, Bayesian Methods and Design, Mixed-Effects Modeling in Psychology, etc.

Undergraduate: Functional Anatomy of Central Nervous System, Cognitive Neuroscience, Sensation and Perception, Animal Communication and Human Language, etc.

COMPUTER SKILLS

R, RStan, Python, MATLAB, SAS, STATA, Presentation, Brain Product Recorder/Analyzer, EEGLAB, Praat

HONORS & AWARDS

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| 2017 | CUNY Student Travel Grant | \$400 |
| 2016 | Post-comprehensive Research Award, University of Iowa | \$9,404.5 |
| 2016 | Graduate College Summer Fellowship, University of Iowa | \$4,000 |

2016	Stanley Graduate Awards for International Research, University of Iowa	\$1,250
2010	Kwang-Hua Scholarship, Peking University	\$500
2008	Scholarship for Outstanding Freshmen, Peking University	\$1,600

PUBLICATION AND REFERENCED CONFERENCE PROCEEDINGS

Yan, S., Farmer, T. A., & Jaeger, T. F. (in preparation). Adaptation to Unexpected Word-Forms in Highly Predictive Sentential Contexts.

Luo, Y., Yan, M., **Yan, S.**, Inhoff, A., & Zhou, X. (2015). Syllabic Tone Articulation Influences Word Identification during Chinese Sentence Reading: Evidence from ERP and Eye Movement Recordings. *Cognitive, Affective, & Behavioral Neuroscience*, 1-21. doi:10.3758/s13415-015-0368-1

Farmer, T. A., **Yan, S.**, Bicknell, K., & Tanenhaus, M. (2015). Form-To-Expectation Matching Effects on Early Eye-Movement Measures During Reading. *Journal of Experimental Psychology: Human Perception and Performance*, 41(4), 958-976. doi:10.1037/xhp0000054

Farmer, T. A., Fine, A. B., **Yan, S.**, Cheimariou, S, & Jaeger, T. F. (2014). Error-Driven Adaptation of Higher-Level Expectations During Reading. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp. 21812186). Austin, TX: Cognitive Science Society.

CONFERENCE PRESENTATIONS

Oral

Yan, S., & Farmer, T. A. (2015). Adaptation to Unexpected Word-Forms in Highly Predictive Sentential Contexts. Talk presented at the 28th Annual Meeting of the CUNY Conference on Human Sentence Processing, Los Angeles, CA. <10% Talk Acceptance Rate.

Poster

Yan, S., Kuperberg, G. R., & Jaeger, T. F. (Submitted). Bayesian surprise during incremental anticipatory processing: a re-analysis of Nieuwland et al. (2017), based on DeLong et al. (2005). Submitted to the 9th Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD.

Yan, S., Farmer, T. A., & Jaeger, T. F. (2017). Go High or Go Low: Adaptation to Different Error Distributions in Sentence Processing. Poster presented at the 30th Annual Meeting of the CUNY Conference on Human Sentence Processing, Boston, MA.

Yan, S., & Farmer, T. A. (2015). Adaptation to Unexpected Word-Forms in Highly Predictive Sentential Contexts. Poster presented at the 37th Annual Conference of the Cognitive Science Society, Pasadena, CA.

Fabre, M., **Yan, S.**, Luo, Y., & Zhou, X. (2015). When Context Meets Sentence at the Prosodic Boundary: ERP Evidence. Poster presented at the 21st Annual Meeting of the Organization for Human Brain Mapping, Honolulu, HI.

PROFESSIONAL MEMBERSHIP

Cognitive Science Society

Society for the Neurobiology of Language