CV - Yunyan Duan March 2017

Yunyan Duan

Department of Linguistics, Northwestern University 2016 Sheridan Rd. Evanston, IL 60208 USA vduan@u.northwestern.edu

EDUCATION

Northwestern University, Evanston, IL

2015-

Ph.D. student, Department of Linguistics

Peking University, Beijing, P. R. China

2009-2013

B.Sc. in Statistics, School of Mathematical Sciences

B.Sc. in Psychology, Department of Psychology

RESEARCH INTERESTS

I am interested in the psychological and computational aspects of human language processing. I wonder how information from various sources integrates to influence language comprehension. I use both psychological experimentation and computational modeling approaches.

PUBLICATIONS

- Yu, H., **Duan, Y.**, & Zhou, X. (in press). Guilt in the eyes: Eye movement and physiological evidence for guilt-induced social avoidance. *Journal of Experimental Social Psychology*.
- *Duan, Y., & *Wu, O. (2016). Learning with auxiliary less-noisy labels. *IEEE Transactions on Neural Networks and Learning Systems*, 1-6. doi:10.1109/TNNLS.2016.2546956. (* indicates equal contributions.)
- Luo, Y., **Duan, Y.**, & Zhou, X. (2015). Processing rhythmic pattern during Chinese sentence reading: An eye movement study. *Frontiers in Psychology 6*: 1881. doi:10.3389/fpsyg.2015.01881.
- Wang, L., **Duan, Y.**, Theeuwes, J., & Zhou, X. (2014). Reward breaks through the inhibitory region around attentional focus. *Journal of Vision 14*(12): 2, 1–7. doi:10.1167/14.12.2.

CONFERENCE PRESENTATIONS

- **Duan, Y.**, & Bicknell, K. (2016). Word identification in reading is constructive: Refixations seek new visual information. Poster presentation at the 22nd annual conference on Architecture and Mechanisms for Language Processing (AMLaP), Bilbao, Spain, 1–3 September 2016.
- **Duan, Y.**, Yu, H., & Zhou, X. (2014). Avoiding eyes reveals guilty heart: An eye movement study on interpersonal guilt. Poster presentation at the 6th Chinese International Conference on Eye Movements (CICEM), Beijing, China, 5–9 May 2014,

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Hu, J., Liu, J., **Duan, Y.**, Zhao, C., Gong, X., Xiang, Y., Jiang, C., & Zhou, X. (2014). Resting-state functional connectivity indexes emotion recognition bias. Poster presentation at the 20th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Hamburg, Germany, 8–12 June 2014.

*Feng, W., ***Duan, Y.**, Luo, Y., & Zhou, X. (2013). When language hurts you: Aggression provoked by rhetorical questions. Poster presentation at the 1st Brain Research Symposium by PKU-IDG/McGovern Institute, Beijing, China, 20–21 August 2013.

ACADEMIC EXPERIENCE

Research Assistant 2015-

Language and Computation Lab, Northwestern University

Advisor: Dr. Klinton Bicknell

Computational modeling for word recognition and visual information processing in reading

Research Assistant 2011-2015

Center for Brain and Cognitive Sciences, Peking University

Advisor: Dr. Xiaolin Zhou

Experimental studies on sentence processing and social emotion; Advanced statistical analyses of behavioral and neural data

Research Intern Apr–Sep 2014

National Laboratory of Pattern Recognition (NLPR), Institute of Automation, Chinese Academy of Sciences

Advisor: Dr. Ou Wu

General machine learning research in classification tasks with noisy labels

Winter School on Computational Neuroscience

Dec 2012

Shanghai Jiao Tong University, Shanghai, China

A week long introduction to models of individual neurons, neural circuits and networks in computational neuroscience field

HONORS AND AWARDS

Successful Participants in Mathematical Contest in Modeling 2013

Apr 2013

First-class prize of Beijing contest district in China Undergraduate

Mathematical Contest in Modeling (CUMCM 2011)

Second-class Freshman Scholarship, Peking University

2009

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PROFESSIONAL DEVELOPMENT

2011-Technical and experimental skills Eve-tracking: Design and run eye-tracking experiments in Experiment Builder and analyze data in Data Viewer. Carry out area-of-interest analysis and scanpath analysis. fMRI: Analyze functional MRI data in SPM. Carry out functional connectivity analysis on resting-state fMRI data in DPARSF and REST. **ERP:** Experience with ERP data collection and data analysis. 2009-Coursework *Graduate*: Topics in linguistics: Bayesian inference for language scientists, Introduction to Computational Linguistics, Fundamentals of Neuroscience, Fundamentals of Syntax/Phonology/Meaning. *Undergraduate*: Cognitive Neuroscience, Functional Anatomy of Central Nervous System, Computational Vision, Sensation and Perception, Mathematical Modeling, Artificial Intelligence. Computer skills 2009-R: lme4, ggplot2; Python: NLTK, PyLucene, Scrapy; MATLAB: Psychtoolbox, Eyelink Toolbox, SPM; Experiment Builder; Praat; LaTex 2009-Statistical analysis and mathematical modeling Linear-mixed model, logistic regression, cluster analysis, principal component analysis, Bayesian inference, support vector machine, etc. 2014-Online courses Accomplished: Statistical Learning (Stanford Online), Machine

Learning (Coursera), Natural Language Processing (Coursera),

Logic: Language and Information-1 (Coursera)

On-going: Mining Massive Datasets (Stanford Online Lagunita)