

Yunyan Duan

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SKILLS

- **Programming:** Proficiency in Python, R, Matlab; Working knowledge of SQL, HTML, C/C++, Praat
- **Specialty:** Machine learning, Statistics, Data mining, Natural language processing, Text analysis

EDUCATION

- **Northwestern University** Evanston, IL
PhD student in Linguistics Sep. 2015 – Jun. 2020 (expected)
- **Northwestern University** Evanston, IL
Master of Arts in Linguistics Oct. 2017
- **Peking University** Beijing, China
Bachelor of Sciences in Statistics (major) and Psychology (double major) Jul. 2013

EXPERIENCE

- **Department of Linguistics, Northwestern University** Chicago, USA
Research Assistant Sep. 2015 – present
 - Analyzed corpora of eye movement record to find out visual information (from computer vision models) and linguistic knowledge (from language models) that predicted human reading behaviors
 - Implemented rational models with Bayesian inference and evaluated model performance
- **Kellogg School of Management, Northwestern University** Chicago, USA
Short-term Research Assistant Aug. – Sep. 2018
 - Extracted text data from PDF files and used fuzzy string matching to find corresponding company names in a database using Python (regular expressions, fuzzywuzzy, PyPDF2)
- **Feinberg School of Medicine, Northwestern University** Chicago, USA
Research Assistant Sep. 2016 – Aug. 2017
 - Conducted a natural language processing project on electronic health records: extracted text features from unstructured notes, and implemented machine learning algorithms to predict ICU readmission
- **Baidu** Beijing, China
Data Analyst Intern Oct. – Dec. 2014
 - Analyzed a big dataset of smart phones' battery power consumption to improve the performance of a power saving application
 - Daily retention rate analysis using SQL and R; summarized the data in a comprehensive way and reported to product manager to help decision making of the product
- **Institute of Automation, Chinese Academy of Sciences** Beijing, China
Research Intern Apr. – Sep. 2014
 - Mainly worked on a machine learning project while briefly explored a computer vision project
 - Developed a classification algorithm robust to label noise, and published a research paper about it
- **Department of Psychology, Peking University** Beijing, China
Research Assistant Sep. 2013 – Jul. 2015
 - Eye-tracking lab manager: Conducted eye-tracking research on psycholinguistics and social cognition
 - Assisted lab members in data collection with EEG/fMRI experiments, and advanced statistical analyses/modeling

FIRST-AUTHOR PUBLICATIONS

- **Duan, Y.**, & Bicknell, K. (2017). Refixations gather new visual information rationally. In *Proceedings of the 39th Annual Conference of the Cognitive Science Society*: 301-306.
- ***Duan, Y.**, & ***Wu, O.** (2017). Learning with auxiliary less-noisy labels. *IEEE Transactions on Neural Networks and Learning Systems*, 28(7), 1716-1721. doi:10.1109/TNNLS.2016.2546956. (* indicates equal contributions.)