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. 2018 - Sep. 2019*
  - 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)

- **The 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. 2014 - 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. 2014 - 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 System, 28(7)*, 1716-1721. doi:10.1109/TNNLS.2016.2546956. (* indicates equal contributions.)