

EDUCATION

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- Shanghai Jiao Tong University** Shanghai, China  
*Bachelor of Arts in Linguistics; GPA: 3.78 (88.5/100)* *Sep. 2020 – June. 2024*  
**Selected Coursework:** Syntax (97/100), Language and Cognition (93/100), Language Data and Python Techniques (92/100), Reinforcement Learning (95/100), Algorithm (97/100), Machine Learning (A)

PUBLICATIONS

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- Liu, Y., Zhang, Z.<sup>†</sup>, Zhang, W.<sup>†</sup>, **Yue, S.<sup>†</sup>**, Zhao, X.<sup>†</sup>, Cheng, X., ... & Hu, H. (2023). ArguGPT: evaluating, understanding and identifying argumentative essays generated by GPT models. *arXiv preprint*

PROJECTS

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- Exploring Sentence Comprehension with an Algorithmic-level Model**  
*Ohio State University, Columbus, OH* *April 2023 - Present*
  - **Corpora Processing:** Annotated geco and provo with modelblocks and run regression experiments.
- Examining Identifiability of AIGC with SVM**  
*Shanghai Jiao Tong University, Shanghai* *Feb 2023 - July 2023*
  - **Linguistic Analysis:** Analyzed the linguistic features with translationese with visualized violin plots
  - **Feature Engineering:** Extract linguistic features from the essays that enhanced the model's performance.
  - **Classification Task:** Attained an accuracy of 95.14% with SVM and hand-crafted linguistic features.
  - **Collaborative Research:** Co-authored an academic paper on the project with teammates.
- Comparative Analysis of Reinforcement Learning Algorithms**  
*Shanghai Jiao Tong University, Shanghai* *Feb 2023 - June 2023*
  - **Algorithm Implementation:** Implemented DQN, Dueling-DDQN, DDPG, and TD3 algorithms to examine and compare the traits of value-based and policy-based reinforcement learning algorithms
  - **Evaluation and Comparison:** Evaluated algorithm performance and effectiveness using Atari game environments and Mujoco simulated control tasks, and made comprehensive analysis based on the results.
  - **Hyperparameter Optimization:** Increased the agents' score by 10.26% by trickery modification on coding and hyperparameter setting, such as epsilon decay, gradient clipping and weight initialization.
- The Perception of Event Boundaries Among Chinese Speaking Young Adults**  
*Shanghai Jiao Tong University, Shanghai* *Sep 2022 - Feb 2023*
  - **Literature Review:** Conducted an extensive review of existing literature on the perception of event boundaries among young Chinese individuals, ensuring a comprehensive understanding of the topic.
  - **Experimental Design:** Designed and developed behavioral experiments to investigate the perception of event boundaries, carefully identifying controlled variables and defining experimental protocols.
  - **Material Preparation:** Recorded live-action videos as materials for event segmentation experiments.
  - **Production Coding and Data Analysis:** Preprocessed the data with Pandas library and conducted statistical significance analysis with SPSS 25.0, and explained the results with ample theoretical support.
- Evaluating Intelligent Chatting Applications from Linguistic Perspective**  
*Shanghai Jiao Tong University, Shanghai* *Aug 2021 - Dec 2021*
  - **Experimental Design:** Designed questions elaborately to elicit the agent's response for evaluation.
  - **Linguistic Analysis:** Conducted comprehensive linguistic analysis on the generated content, examining aspects such as grammaticality, topic relevance and implicature inference with a synchronized model.

SKILLS

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- **Programming:** Python, C++, L<sup>A</sup>T<sub>E</sub>X, SPSS, Linux Shell, Git, Pandas, Numpy, scikit-learn
- **Language Skills:** English (proficient), Spanish (DELE B1), Japanese (intermediate), Mandarin (native)
- **English Proficiency:** TOEFL 106 (L27 S23 R30 W26), GRE 325 (V156 Q169)