Yating Wu

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EDUCATION

The University of Texas at Austin(***GPA: 3.93/4.00***) — *Austin, TX*
Ph.D. in **Electrical and Computer Engineering** — *Jan. 2020 - Now*
Supervisors: Prof. Jessy Li and Prof. Alex Dimakis

Dalian University of Technology(***GPA: 91, Ranking: 1/45***) — *Dalian, China*
B.Eng. in **Computer Science & Technology** and B.A. in **Japanese**(5 year degree) — *Sept. 2014 - July 2019*

The University of Tokyo — *Tokyo, Japan*
Undergraduate Exchange Student in **Information & Communication Engineering** — *Sept. 2017 - Aug. 2018*
Supervisor: Prof. Toshihiko Yamasaki

PUBLICATIONS

Working on **Elaborative Simplification** and **Mutilingual Speech Disflueny Detection.**

- **Elaborative Simplification as Implicit Questions Under Discussion(preprint)**
  Yating Wu*, William Sheffield*, Kyle Mahowald and Junyi Jessy Li
- **Discourse Analysis via Questions and Answers: Parsing Dependency Structures of Questions Under Discussion.**
  Wei-Jen Ko, **Yating Wu**, Cutter Dalton, Dananjay Srinivas, Greg Durrett and Junyi Jessy Li.
- **longhorns at DADC 2022: How many linguists does it take to fool a Question Answering model? A systematic approach to adversarial attacks.**
  Venelin Kovatchev, Trina Chatterjee, Venkata S Govindarajan, Jifan Chen, Eunsol Choi, Gabriella Chronis, Anubrata Das, Katrin Erk, Matthew Lease, Junyi Jessy Li, **Yating Wu** and Kyle Mahowald.
  In Proceedings of the First Workshop on Dynamic Adversarial Data Collection (**DADC**) at the Annual Conference of the North American Chapter of the Association for Computational Linguistics(**NAACL**), pages 41–52, 2022.

WORKING EXPERIENCE

Amazon — *Austin, TX*
Software Develop Engineer Intern — *June 2021 - Sept. 2021*

- Implemented a **Ranking System** for ranking the events based on its popularity, by **Java**. I wrote over **10,000 lines** java code and over **97% coverage**.
- Designed and Implemented a Ranking Data **DynamoDB** table for saving viewership data and filter events, **Java.**
- Ingested with inner service to create **two new carousals** to provide this service for new customers, **Java.**
- **The project has been launched in prime video live events section.**

SELECTED PROJECTS

Investigating inverse problem in speech adaptation through invertible neural network — *Austin, TX*
Developer — *Oct. 2021 - Dec. 2021*

- Generated motor commands(articulator parameters), their formant frequencies and corresponding bandwidths pairs with Maeda vocal tract synthesizer as dataset, by **Python**.
- Set up invertible neural networks to infer the parameters and validate the correctness by replicating examples given by Ardizzone, by **Python**.
- Tuned on different settings and used 3 metrics to evaluate the model - MSE loss of forward process, MSE loss of inverse process, validity of parameters.
- Got a best result of forward process MSE - 250.80HZ, inverse process MSE - 214.73HZ, inverse parameter validity 95.5%.

AWARD

VMware Codehouse Palo Alto 1st place — *Jul. 2021*

SKILLS

Computer Languages: Python, Java, C/C++, JavaScript(TypeScript), Bash, SQL, HTML/CSS, Kotlin, LaTeX
Technologies: Tensorflow, PyTorch, Stanford CoreNLP, NLTK, Amazon Web Service, Cuda Programming, Mockito, Guice, DynamoDB