

Zheng Xin Yong

CURRICULUM VITAE

Department of Computer Science
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Education

- 2021 **Ph.D. in Computer Science**
– CURRENT Brown University, *Providence, RI*.
Advisor: Prof. Stephen Bach
- 2017 - 2021 **B.Sc. in Computational Sciences & Business**
Minerva University, *San Francisco, CA*.
Thesis: Representation Learning for Frame-Semantic Resources

Publications

- 2022 **Frame Shift Prediction**
Z. X. Yong, P. D. Watson, T. T. Torrent, O. Czulo, and C. F. Baker.
Conference on Language Resources and Evaluation (LREC), To Appear
- Adapting BigScience Multilingual Model to Unseen Languages**
Z. X. Yong* and V. Nikoulina*.
ACL Workshop on Challenges and Perspectives in Creating Large Language Models
- PromptSource: An Integrated Development Environment and Repository for Natural Language Prompts**
S. H. Bach*, V. Sanh*, **Z. X. Yong**, A. Webson, C. Raffel, N. V. Nayak, A. Sharma, T. Kim, M. S. Bari, T. Fevry, Z. Alyafeai, M. Dey, A. Santilli, Z. Sun, S. Ben-David, C. Xu, G. Chhablani, H. Wang, J. A. Fries, M. S. Al-shaibani, S. Sharma, U. Thakker, K. Almubarak, X. Tang, T. J. Jiang, and A. M. Rush.
Association for Computational Linguistics (ACL), Demo Track.
- Multitask Prompted Training Enables Zero-Shot Task Generalization**
V. Sanh*, A. Webson*, C. Raffel*, S. H. Bach*, L. Sutawika, Z. Alyafeai, A. Chaffin, A. Stiegler, T. L. Scao, A. Raja, M. Dey, M. S. Bari, C. Xu, U. Thakker, S. Sharma, E. Szczechla, T. Kim, G. Chhablani, N. V. Nayak, D. Datta, J. Chang, T. J. Jiang, H. Wang, M. Manica, S. Shen, **Z. X. Yong**, H. Pandey, R. Bawden, T. Wang, T. Neeraj, J. Rozen, A. Sharma, A. Santilli, T. Fevry, J. A. Fries, R. Teehan, S. Biderman, L. Gao, T. Bers, T. Wolf, and A. M. Rush.
International Conference on Learning Representations (ICLR). **Selected for spotlight presentation.**
- 2020 **Semi-supervised Deep Embedded Clustering with Anomaly Detection for Semantic Frame Induction**
Z. X. Yong and T. T. Torrent.
Conference on Language Resources and Evaluation (LREC).

Research Internship Experience

- JUN, 2020 **FrameNet Brasil | Federal University of Juiz de Fora**
– NOV, 2020 Project: Analyzing and predicting cross-lingual semantic frame shifts using graph neural networks..
Mentors: Collin F. Baker, Tiago T. Torrent, Oliver Czulo, Ely Matos
- SEP, 2019 **Minerva-Masason Foundation Artificial Intelligence Lab**
– AUG, 2020 Project: Image recoloring for graphic designs.
Mentor: Patrick Watson
- JUN, 2019 **Red Hen Lab**
– DEC, 2019 Project: Semi-supervised representation learning for expanding FrameNet.
Mentor: Tiago T. Torrent

- JUN, 2018 **The Interface Financial Group**
- MAY, 2019 Project: Information extraction for unstructured financial documents..
Mentor: Ross Biro
- JAN, 2018 **Pilot, Inc**
- APR, 2018 Project: Rule-based and statistical-based named-entity recognition for financial memos..
Mentor: Louise Vigeant

Industrial Internship Experience

- FEB, 2021 **Glint Solar**
- MAY, 2021 Machine Learning Engineer Intern, *Oslo, Norway*.
Create classification models for identifying natural lakes and human-made reservoirs from satellite images.
- APR, 2020 – **Mozilla Corporation**
- JUN, 2020 Fix-The-Internet Builder, *California, USA*.
Created a full-stack mobile-friendly platform to provide AI-driven feedback (such as attention and popularity prediction) to graphic designers.
- DEC, 2018 – **Recruit Co., Ltd.**
- APR, 2019 Machine Learning Engineer Intern, *Tokyo, Japan*.
Developed an end-to-end machine learning pipeline using Luigi and researched NLP models for automated essay scoring in Japanese.
- DEC, 2017 – **The Last Mile**
- APR, 2018 Lead Platform Developer, *California, USA*.
Led ten students to design JavaScript learning curriculum and built a coding platform for prisoners in San Quentin State Prison.
- SEP, 2017 – **Minerva Schools at Keck Graduate Institute**
- APR, 2018 Product Team Intern, *California, USA*.
Designed fuzzy string searching algorithm to compare and search school addresses on Google to make de-duplicating SQL database 40% faster.

Research Mentoring

- 2022 **Imam Hasan Araf**
Undergraduate Student, *Rowan University*.
Project: Named entity recognition for unseen entity labels.
Program: ExploreCSR – Socially-Responsible AI for Computational Creativity
- 2019 – 2021 **Shutaro Aoyama**
Undergraduate Student, *University of Tokyo*.
Project: Generative NLP models for note-taking app (edtech).
Program: Masason Foundation Mentorship
- 2019 – 2021 **Yuri Morizane**
Undergraduate Student, *Osaka University*.
Project: Bayesian model for medical image construction.
Program: Masason Foundation Mentorship

Professional Services

Reviewer.

ACL Rolling Review: 2022 – Present

ACL: 2021

EMNLP: 2021

Language Resources and Evaluation Journal: 2021

The Workshop on Weakly Supervised Learning at ICLR: 2021

Competences

- Programming Python, Java, JavaScript, C/C++, R, MySQL, Unix Shell
- Libraries and PyTorch, TensorFlow, Keras, NLTK, Amazon Web Service, Google Cloud Platform, Docker, Singularity, Services Heroku, \LaTeX , Git