## Langlin Huang

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EDUCATION	
•Washington University in St. Louis	St.Louis, U.S.
Incoming student for Ph.D. in Computer Science	Aug. 2024 - present
•Institute of Computing Technology, Chinese Academy of Sciences (ICT/CAS)	Beijing, China
M.E. in Computer Science and Technology -GPA: 3.75/4.0, Outstanding Dissertation •University of International Business and Economics	Sep. 2021 - Jun. 2024 Beijing, China
B.E. in Data Science and Big Data Technology -GPA: 3.74/4.0 (Rank:2/147)	Sep. 2017 - Jun. 2021
Research Interests	
<ul> <li>Machine Translation &amp; Multilingual Representation Learning</li> <li>Language Model Reasoning &amp; Reliable Language Generation</li> </ul>	
PUBLICATIONS	
<ul> <li>Integrating Multi-scale Contextualized Information for Byte-based Neural Machine Trans Langlin Huang, Yang Feng ACL findings, 2024 [Paper][Code]</li> <li>Enhancing Neural Machine Translation with Semantic Units Langlin Huang, Shuhao Gu, Zhuocheng Zhang, Yang Feng EMNLP findings, 2023 [Paper][Code]</li> <li>BayLing: Bridging Cross-lingual Alignment and Instruction Following through Interactive for Large Language Models</li> </ul>	
Shaolei Zhang, Qingkai Fang, Zhuocheng Zhang, Zhengrui Ma, Yan Zhou, Langlin Huang, Mengy Shangtong Gui, Yunji Chen, Xilin Chen, Yang Feng Preprint edition on arXiv. Jun. 2023 [Paper] [Code]	zu Bu,
•Automatic Construction of a Depression-Domain Lexicon Based on Microblogs: Text Min Genghao Li, Bing Li, Langlin Huang, Sibing Hou JMIR medical informatics, 2020, Vol 8. Jun. 2020 [Paper]	iing Study
PROJECTS	
<ul> <li>BayLing: On the Multi-lingual Ability &amp; Multi-turn Interaction of Large Language Mode Exploited the language-aligning potential of translation data for improving the multi-lingual abilit Constructed interactive translation data and leveraged it to enhance LLM's instruction following – Contributions: Sifted high-quality translation data with statistical and model-based metric Found the few high-quality translation data magic, efficiently endowing LLaMA with ne – Achievement: Released BayLing, a multilingual &amp; interactive LLM finetuned with a few Project link: https://withub.com/istalp/Poul_ing/trag/main</li> </ul>	<b>ity of LLMs</b> ; ability. etrics. ew language capability.
- Project link: https://github.com/ictnlp/BayLing/tree/main	E-1 0000 A 0000
<ul> <li>•CVAE-based Label Smoothing for Neural Machine Translation</li> <li>Proposed a flexible label smoothing for training language models and translation models.</li> <li>– Contributions: Proposed to replace uniform distributions with predicted real label distri cross-entropy loss.</li> </ul>	Feb. 2022 - Aug. 2022 butions in label-smoothed
Proposed to predict real label distribution with a Conditional Variational Auto Encode seeing the ground truth word.	
- Achievement: Significantly improved translation performance by 1.2 BLEU on En-Ro and Betant Linky, http://orush.ania.gov.or/potent/CN1154550024	d Zh-En translation tasks.
<ul> <li>Patent Link: http://epub.cnipa.gov.cn/patent/CN115455993A</li> <li>Chinese-Thai Translation System</li> </ul>	May. 2022 - Jul. 2022
<ul> <li>Developed strong Chinese-Thai bidirectional machine translation systems.</li> <li>Contributions: Proposed a strategy to modify pre-trained language model mBART, with Crawled external in-domain texts and augmented training data via back-translation.</li> <li>Achievement: Won the Championship in the 18th China Conference on Machine Translate</li> <li>Technical Report link: http://sc.cipsc.org.cn/mt/conference/2022/papers/test_paper/6</li> </ul>	hout hurting performance. tion(CCMT) Zh-Th track.
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<ul> <li>Automatic Construction of a Depression-Domain Lexicon Based on Microblogs         Constructed a depression-domain lexicon, starting from few seed words, by analyzing Weibo texts         – Contributions: Crawled a large amount of depression domain texts from microblog (Sin Leveraged word2vec and label propagation algorithm to enlarge depression lexicon itera         – Achievement: Proposed a depression domain lexicon with more than 500 words, help online depression detection.         – Paper link: https://medinform.jmir.org/2020/6/e17650     </li> </ul>	na Weibo). atively.
TECHNICAL SKILLS	
Master:Python, Pytorch, C, C++, Pandas, Data Analysis & Visualization	

Proficient: JAVA, R, Shell, LaTeX, Web Scraper