

# Langlin Huang

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## EDUCATION

- **Washington University in St. Louis (WashU)** *St. Louis, U.S.*  
*Ph.D. Student in Computer Science* Aug. 2024 - Jun. 2029 (expected)
- **Institute of Computing Technology, Chinese Academy of Sciences (ICT/CAS)** *Beijing, China*  
*M.E. in Computer Technology -GPA: 3.75/4.0, Outstanding Dissertation* Sep. 2021 - Jun. 2024
- **University of International Business and Economics (UIBE)** *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

- Language Model Reasoning & Efficient Model Generation
- Machine Translation & Multilingual Representation Learning

## PUBLICATIONS

- **PosS: Position Specialist Generates Better Draft for Speculative Decoding**  
Langlin Huang, Chengsong Huang, Jixuan Leng, Di Huang, Jiaxin Huang  
*Submitted to ICLR 2026* [Paper] [Code]
- **MoCE: Adaptive Mixture of Contextualization Experts for Byte-based Neural Machine Translation**  
Langlin Huang, Mengyu Bu, Yang Feng  
*NAACL 2025 oral* [Paper] [Code]
- **Integrating Multi-scale Contextualized Information for Byte-based Neural Machine Translation**  
Langlin Huang, Yang Feng  
*ACL findings, 2024* [Paper][Code]
- **Enhancing Neural Machine Translation with Semantic Units**  
Langlin Huang, Shuhao Gu, Zhuocheng Zhang, Yang Feng  
*EMNLP findings, 2023* [Paper][Code]
- **CrossWordBench: Evaluating the Reasoning Capabilities of LLMs and LVLMs with Controllable Puzzle Generation**  
Jixuan Leng, Chengsong Huang, Langlin Huang, Bill Yuchen Lin, William W Cohen, Haohan Wang, Jiaxin Huang  
*COLM 2025* [Paper][Code] [Dataset]
- **Divide, Reweight, and Conquer: A Logit Arithmetic Approach for In-Context Learning**  
Chengsong Huang, Langlin Huang, Jiaxin Huang  
*ICLR 2025 workshop* [Paper][Code]
- **Efficient test-time scaling via self-calibration**  
Chengsong Huang, Langlin Huang, Jixuan Leng, Jiacheng Liu, Jiaxin Huang  
*Preprint* [Paper][Code]
- **BayLing: Bridging Cross-lingual Alignment and Instruction Following through Interactive Translation for Large Language Models**  
Shaolei Zhang, Qingkai Fang, Zhuocheng Zhang, Zhengrui Ma, Yan Zhou, Langlin Huang, Mengyu Bu, Shangdong Gui, Yunji Chen, Xilin Chen, Yang Feng  
*Preprint* [Paper] [Code]
- **Automatic Construction of a Depression-Domain Lexicon Based on Microblogs: Text Mining Study**  
Genghao Li, Bing Li, Langlin Huang, Sibing Hou  
*JMIR medical informatics, 2020, Vol 8. Jun. 2020* [Paper]

## PROJECTS

- **CVAE-based Label Smoothing for Neural Machine Translation** *Feb. 2022 - Aug. 2022*  
Proposed a flexible label smoothing for training language models and translation models.
  - **Contributions:** Proposed to replace uniform distributions with predicted real label distributions in label-smoothed cross-entropy loss.  
Proposed to predict real label distribution with a Conditional Variational Auto Encoder(CVAE) module by fore-seeing the ground truth word.
  - **Achievement:** Significantly improved translation performance by 1.2 BLEU on En-Ro and Zh-En translation tasks.
  - **Patent Link:** <http://epub.cnipa.gov.cn/patent/CN115455993A>
- **Chinese-Thai Translation System** *May. 2022 - Jul. 2022*  
Developed strong Chinese-Thai bidirectional machine translation systems.
  - **Contributions:** Proposed a strategy to modify pre-trained language model mBART, without hurting performance.  
Crawled external in-domain texts and augmented training data via back-translation.
  - **Achievement:** Won the **Championship** in the 18th China Conference on Machine Translation(CCMT) Zh-Th track.
  - **Technical Report link:** [http://sc.cipsc.org.cn/mt/conference/2022/papers/test\\_paper/60/60\\_Paper.pdf](http://sc.cipsc.org.cn/mt/conference/2022/papers/test_paper/60/60_Paper.pdf)

## LANGUAGES PROFICIENCY

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**Master:**Python, Shell, LaTeX, C++

**Proficient:**JAVA, R, C

## COMMUNITY SERVICES

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- **Top-reviewer:** NeurIPS 2025
- **Reviewer:** NeurIPS, ICLR, COLM, ACL, ACL Rolling Review, TALLIP