

# Yuwei Yin - Curriculum Vitae

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## EDUCATION

- **Beijing Information Science and Technology University (BISTU)** Chaoyang, Beijing, China  
*B.Eng.* in Computer Science and Technology (Artificial Intelligence Track)  
GPA: 92.7/100; Rank 1<sup>st</sup> of 202 (The last three years: 95.4/100) ([Transcript](#))  
Sep. 2014 – Jun. 2018
- **Chengdu Shude High School (SDZX)** Chengdu, Sichuan, China  
Rank 1% in Sichuan Gaokao (National College Entrance Examination, NCEE)  
Sep. 2011 – Jun. 2014
- **Qionglai Wenchang Middle School (WCZX)** Chengdu, Sichuan, China  
Rank 1% in Chengdu Zhongkao (Senior High School Entrance Examination)  
Sep. 2008 – Jun. 2011

## WORK EXPERIENCE

- **The University of Hong Kong** Pokfulam, Hong Kong  
*Research Assistant (Full-time)*  
Sep. 2022 – Present
  - **Affiliation:** HKU NLP Group, Department of Computer Science.
  - **Duty:** Leading research projects based on graph neural networks and multimodal generation. **Manager:** Qi Liu.
- **Microsoft** Haidian, Beijing, China  
*Research Intern (Stars of Tomorrow Internship Program) (Full-time)*  
Nov. 2020 – Sep. 2021
  - **Affiliation:** Natural Language Computing (NLC) Group, Microsoft Research (Asia).
  - **Duty:** Researched multilingual neural machine translation. **Mentor:** Shuming Ma.

## RESEARCH EXPERIENCE

- **Chinese Academy of Sciences** Haidian, Beijing, China  
*Research Intern (Talent Cultivation Program) (Full-time) (Unpaid)*  
Sep. 2017 – Jun. 2018
  - **Affiliation:** Trusted Computing and Information Assurance (TCA) Group, Institute of Software.
  - **Duty:** Developed a privacy-protected system (Android & Web). **Advisor:** Zhenfeng Zhang, Chengxia Liu.
- **Beijing Information Science and Technology University** Chaoyang, Beijing, China  
*Undergraduate Research Assistant (National-level Innovation Project) (Part-time) (Unpaid)*  
Sep. 2015 – Dec. 2016
  - **Affiliation:** Computer Science and Technology Department, Computer School.
  - **Duty:** Developed a smart band system (software & hardware). **Advisor:** Xuping Ma.

## PUBLICATIONS

**Research Interests:** Natural Language Processing, Multilingual Machine Translation, Multimodality, Interpretability  
(\* indicates equal contribution)

## CONFERENCE PROCEEDINGS

- [C5] **CROP: Zero-shot Cross-lingual Named Entity Recognition with Multilingual Labeled Sequence Translation**  
Jian Yang, Shaohan Huang, Shuming Ma, Yuwei Yin, Li Dong, Dongdong Zhang, Hongcheng Guo, Zhoujun Li, Furu Wei  
Published in Conference *EMNLP 2022 Findings* (Dec 2022) || [Paper](#) || [arXiv 2210.07022](#) || [Code](#)
- [C4] **UM4: Unified Multilingual Multiple Teacher-Student Model for Zero-Resource Neural Machine Translation**  
Jian Yang\*, Yuwei Yin\*, Shuming Ma, Dongdong Zhang, Shuangzhi Wu, Hongcheng Guo, Zhoujun Li, Furu Wei  
Published in Conference *IJCAI-EACI 2022* (Jul 2022) || [Paper](#) || [arXiv 2207.04900](#) || [Code](#)
- [C3] **HLT-MT: High-resource Language-specific Training for Multilingual Neural Machine Translation**  
Jian Yang, Yuwei Yin, Shuming Ma, Dongdong Zhang, Zhoujun Li, Furu Wei  
Published in Conference *IJCAI-EACI 2022* (Jul 2022) || [Paper](#) || [arXiv 2207.04906](#) || [Code](#)
- [C2] **Improving Multilingual Neural Machine Translation with Auxiliary Source Languages**  
Weijia Xu, Yuwei Yin, Shuming Ma, Dongdong Zhang, Haoyang Huang  
Published in Conference *EMNLP 2021 Findings* (Nov 2021) || [Paper](#) || [Code](#)
- [C1] **Multilingual Agreement for Multilingual Neural Machine Translation**  
Jian Yang, Yuwei Yin, Shuming Ma, Haoyang Huang, Dongdong Zhang, Zhoujun Li, Furu Wei  
Published in Conference *ACL-IJCNLP 2021* (Aug 2021) || [Paper](#) || [Code](#)

## JOURNAL ARTICLES

- [J2] **GTrans: Grouping and Fusing Transformer Layers for Neural Machine Translation**  
Jian Yang, Yuwei Yin, Shuming Ma, Haoyang Huang, Dongdong Zhang, Furu Wei and Zhoujun Li  
Published in Journal *IEEE T-ASLP* (Nov 2022) || [Paper](#) || [arXiv 2207.14467](#) || [Code](#)
- [J1] **Design and Implementation of Smart Band System**  
Xuping Ma, Jiahao Cai, Yuwei Yin, Shangsu Ding  
Published in Journal *Computer Knowledge and Technology* (Dec 2016) || [Paper](#)

## PREPRINTS

- [P2] *HanoiT: Enhancing Context-aware Translation via Selective Context*  
Jian Yang, Yuwei Yin, Shuming Ma, Liqun Yang, Hongcheng Guo, Haoyang Huang, Dongdong Zhang, Yutao Zeng, Zhoujun Li, and Furu Wei  
Accepted in Conference *DASFAA 2023* (Apr 2023) || [arXiv 2301.06825](#)
- [P1] *GanLM: Encoder-Decoder Pre-training with an Auxiliary Discriminator*  
Jian Yang, Shuming Ma, Li Dong, Shaohan Huang, Haoyang Huang, Yuwei Yin, Dongdong Zhang, Liqun Yang, Zhoujun Li and Furu Wei  
Under review || [arXiv 2212.10218](#)

## ACADEMIC SERVICE

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### PEER REVIEW

- Journal Articles
  - IEEE Transactions on Audio, Speech, and Language Processing (TASLP) *2022*
  - ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP) *2023*

## HONORS AND AWARDS

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### SCHOLARSHIPS

- China National Scholarship (top 1%, National level) *Nov. 2016 & Nov. 2017*
- Excellent Academic Scholarship (top 10%, University level) *Jan. 2016 & Jan. 2017 & Jan. 2018*
- Research and Innovative Scholarship (University level) *Jan. 2016 & Jan. 2017*
- Social Contribution Scholarship (University level) (volunteer services for 200+ hours) *Jan. 2017 & Jan. 2018*

### AWARDS

- Beijing Outstanding Graduate Award (top 5%, Provincial level) *Jul. 2018*
- Outstanding Graduate Award (top 5%, University level) *Jul. 2018*
- Diligent Study & Research Pioneer Award (top 3%, University level) *Dec. 2017*

### PRIZES

- 1<sup>st</sup> Prize in The 32nd National Physics Competition, Beijing District (top 5%, Provincial level) *Dec. 2015*
- 1<sup>st</sup> Prize in The 9th Mathematics Competition (top 5%, University level) *Jun. 2015*