

# Yuwei Yin - Curriculum Vitae

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## EDUCATION

- **Beihang University (BUAA)** Haidian, Beijing, China  
Intelligent Information Process Institute, School of Computer Science and Engineering  
GPA: 91.7/100; Rank 3<sup>rd</sup> of 80 (Graduate Course Only, No Degree Expected) *Sep. 2018 – Sep. 2021*
- **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*

## RESEARCH EXPERIENCE

- **The University of Hong Kong** Hong Kong SAR  
*Research Assistant (Research Project) (Full-time)* *Sep. 2022 – Aug. 2023 (Present)*
  - **Affiliation:** HKU NLP Group, Department of Computer Science.
  - **Duty:** Leading research projects based on graph neural networks and multimodal generation. **Supervisor:** Qi Liu.
- **Microsoft** 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 [C1-C5, J2]. **Mentor:** Shuming Ma.
- **Beihang University** Beijing, China  
*Graduate Research Assistant (Research Project) (Part-time)* *Sep. 2018 – Jun. 2019*
  - **Affiliation:** Intelligent Information Process Institute, School of Computer Science and Engineering.
  - **Duty:** Developed a data mining and web system (Vue.js & Django) ([EDMS](#)). **Supervisor:** Xiaoming Zhang.
- **Chinese Academy of Sciences** Beijing, China  
*Research Intern (Talent Cultivation Program) (Full-time)* *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** Beijing, China  
*Undergraduate Research Assistant (National-level Innovation Project) (Part-time)* *Sep. 2015 – Dec. 2016*
  - **Affiliation:** Computer Science and Technology Department, Computer School.
  - **Duty:** Developed a smart band system (software & hardware) [J1]. **Supervisor:** Xuping Ma.

## PUBLICATIONS

**Research Interests:** Natural Language Understanding & Generation, Multilingual NLP, Interpretable NLP, Multimodality  
(\* 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  
Acceptance in *EMNLP 2022* (Dec 2022) || [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  
*IJCAI-ECAI 2022* (Jul 2022) || [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  
*IJCAI-EACI 2022* (Jul 2022) || [arXiv 2207.04906](#) || [Code](#)
- [C2] *Improving Multilingual Neural Machine Translation with Auxiliary Source Languages*  
Weijia Xu, [Yuwei Yin](#), Shuming Ma, Dongdong Zhang, Haoyang Huang  
*EMNLP 2021 Findings* (Nov 2021) || [Code](#)
- [C1] *Multilingual Agreement for Multilingual Neural Machine Translation*  
Jian Yang, [Yuwei Yin](#), Shuming Ma, Haoyang Huang, Dongdong Zhang, Zhoujun Li, Furu Wei  
*ACL-IJCNLP 2021* (Aug 2021) || [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  
[IEEE T-ASLP](#) (Nov 2022) || [arXiv 2207.14467](#) || [Code](#)
- [J1] *Design and Implementation of Smart Band System*  
Xuping Ma, Jiahao Cai, Yuwei Yin, Shangsui Ding  
[Computer Knowledge and Technology](#) (Dec 2016)

## PREPRINTS

- [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  
[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) 2022

### RESEARCH MENTORSHIP

- Mentored CS Masters 2020 – 2021
  - Caijun Bao: “Composite Aspect-based Sentiment Analysis Technology Based on Deep Learning”
  - Xinxin Song: “Sequential Recommendation Algorithm Based on Self-Supervised Learning”
  - Yuling Deng: “Two-stage Algorithm of Machine Reading Comprehension Based on Extraction and Matching”

### TEACHING EXPERIENCE

- Teaching Assistant
  - *Discrete Mathematics*, School of Computer Science and Engineering, Beihang University Fall 2019

## 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