

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 3rd 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 1st 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
Accepted 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

- [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 *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
[arXiv 2212.10218](#)

ACADEMIC SERVICE

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

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

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