

# CURRICULUM VITAE – YUWEI YIN

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## EDUCATION

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**Beihang University (BUAA)** Sep. 2018 – Sep. 2021

Intelligent Information Process Institute, State Key Lab of Software Development Environment Beijing, China

Integrated M.S. & Ph.D. (dropout) in Machine Learning (M.S.) & Natural Language Processing (Ph.D. from 2019)

GPA: 91.7/100, rank 3<sup>rd</sup> of 80

**Beijing Information Science & Technology University (BISTU)** Sep. 2014 – Jun. 2018

B.Eng. in Computer Science and Technology (Artificial Intelligence Track) Beijing, China

GPA: 92.7/100, rank 1<sup>st</sup> of 202

## RESEARCH EXPERIENCE

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**Microsoft Research (Asia), Beijing, China** Nov. 2020 – Sep. 2021

- **Research Intern** (Stars of Tomorrow Internship Program) in Natural Language Computing (NLC) group
- Researched multilingual neural machine translation [C1-C4], mentored by Shuming Ma

**State Key Lab of Software Dev. Env., BUAA, Beijing, China** Sep. 2018 – Jun. 2019

- **Research Assistant** in funding program Expert Database Management System, managed by Xiaoming Zhang
- Developed a data mining (crawling, cleaning, and statistical analysis) and web system (Vue.js & Django)

**Institute of Software, Chinese Academy of Sciences, Beijing, China** Sep. 2017 – Jun. 2018

- **Research Intern** in Trusted Computing and Information Assurance, advised by Zhenfeng Zhang, Chengxia Liu
- Developed a privacy-protected system (Android APP & website) based on single sign-on and OAuth & OpenID

**Computer School, BISTU, Beijing, China** Sep. 2015 – Dec. 2016

- **Research Assistant** in the Undergraduate Innovation Project (national level), advised by Xuping Ma
- Developed a smart band system (software & hardware) to measure heart rate and sports situation [J1]

## PUBLICATIONS

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**Research Interests:** Natural Language Understanding & Generation, Multilingual NLP, Interpretable NLP

### Conference Proceedings

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 (\* indicates equal contribution) [IJCAI-2022](#) | [arXiv](#)

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-2022](#) | [arXiv](#)

C2 **Improving Multilingual Neural Machine Translation with Auxiliary Source Languages**  
Weijia Xu, Yuwei Yin, Shuming Ma, Dongdong Zhang, Haoyang Huang [EMNLP-2021](#)

C1 **Multilingual Agreement for Multilingual Neural Machine Translation**  
Jian Yang, Yuwei Yin, Shuming Ma, Haoyang Huang, Dongdong Zhang, Zhoujun Li, Furu Wei [ACL-2021](#)

## Journal Articles

### J1 *Design and Implementation of Smart Band System*

Xuping Ma, Jiahao Cai, Yuwei Yin, Shangsui Ding

[Computer Knowledge and Technology, 2016](#)

## ACADEMIC SERVICE

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### Journal & Conference Reviewing

- *IEEE/ACM Transactions on Audio, Speech, and Language Processing* 2022

## RESEARCH MENTORSHIP

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### Master's students at Beihang University

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

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### Teaching Assistantship

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

## HONORS AND AWARDS

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### Award

- **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

### Scholarship

- **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) Jan. 2017 & Jan. 2018

### Competition

- **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

## TECHNICAL SKILLS

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- **Programming Languages:** Python, C/C++, Java, JavaScript, HTML & CSS, PHP, Bash, SQL
- **Toolkits & Libraries:** PyTorch, TensorFlow, Keras, Fairseq, scikit-learn, Gensim, NLTK, CoreNLP
- **Data Analysis:** Crawler (Requests, Beautiful Soup, Scrapy), NumPy, pandas, Matplotlib, t-SNE
- **System Development:** Vue.js, Django, Node.js, Java Web, Android SDK
- **Office Software:** L<sup>A</sup>T<sub>E</sub>X, Markdown, Word, PowerPoint, Excel, Visio, Mind Map, UML Modeling