

# YUWEI YIN (JOEY)

✉ [seckexyin@gmail.com](mailto:seckexyin@gmail.com) · [LinkedIn](#) · [Google Scholar](#) · [Homepage](#) · [GitHub YuweiYin](#)

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

GPA: 91.7/100, rank 3<sup>rd</sup> of 80 in School of Computer Science and Engineering

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

*Bachelor of Engineering (honours)* in Computer Science and Technology Beijing, China

GPA: 92.7/100, rank 1<sup>st</sup> of 202 in Computer Science and Technology, Computer School

## RESEARCH EXPERIENCE

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**Microsoft Research Asia** Nov. 2020 – Sep. 2021

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

**State Key Lab of Software Dev. Env., Beihang University** Sep. 2018 – Jun. 2019

- Research Assistant in funding program Expert Database Management System, managed by Xiaoming Zhang
- Developed the data mining (crawling, cleaning, and statistical analysis) and website system in the project

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

- Research Intern in Trusted Computing and Information Assurance, advised by Zhenfeng Zhang, Chengxia Liu
- Developed a privacy-protected system (Android & Web applications) based on single sign-on (SSO)

**Computer School, Beijing Information Science & Technology University** Sep. 2015 – Dec. 2016

- Research Assistant in funding program National Undergraduate Innovation Project, advised by Xuping Ma
- Developed a smart band system to measure the heart rate and sports situation (Software & Hardware) [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 [IJCAI, 2022](#)

C3 **High-resource Language-specific Training for Multilingual Neural Machine Translation**  
Jian Yang, Yuwei Yin, Shuming Ma, Dongdong Zhang, Zhoujun Li, Furu Wei [IJCAI, 2022](#)

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, Shangsu Ding

[Computer Knowledge and Technology, 2016](#)

## TEACHING AND ACADEMIC SERVICE

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### Teaching Assistantship

- *Discrete Mathematics* (B3I061142), Beihang University, professor: Zhoujun Li Fall 2019

### Research Mentorship

- M.S. in Beihang University: Caijun Bao, Xinxin Song, Nannan Shi, Yuling Deng 2019 – 2020

### Journal & Conference Reviewing

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

## HONOURS 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

## PROFESSIONAL SKILLS

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- **Programming Languages:** Python, C/C++, Java, Bash, HTML & CSS & JavaScript, PHP, SQL
- **Toolkits & Libraries:** PyTorch, Tensorflow, Keras, Fairseq, scikit-learn, Gensim, NLTK, CoreNLP
- **Data Analysis:** Crawler (Requests, BeautifulSoup4, Scrapy), Numpy, Pandas, Matplotlib, t-SNE
- **System Development:** Vue.js, Django, Node.js, Java Web, Android SDK
- **Office Software:**  $\text{\LaTeX}$ , Markdown, Word, PowerPoint, Excel, Visio, Mind Map, UML Modeling

## MISCELLANEOUS

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- **Languages:** Mandarin (native), English (fluent), French & German & Japanese (elementary)
- **Interests:** Philosophy, Mathematics, Physics, Cosmology, Algorithm, Polyglot, Soccer, Calisthenics
- **Motto:** Wir müssen wissen, wir werden wissen! – David Hilbert, 1930