CURRICULUM VITAE – YUWEI YIN

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EDUCATION

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 3rd 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 1st of 202

RESEARCH EXPERIENCE

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

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

$C3$ ***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, <u>Yuwei Yin</u>, Shangsu Ding   Computer Knowledge and Technology, 2016

TEACHING AND ACADEMIC SERVICE

Teaching Assistantship

- *Discrete Mathematics* (B3I061142), Beihang University   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

HONORS AND AWARDS

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

- *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

TECHNICAL SKILLS

- **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**: LaTeX, Markdown, Word, PowerPoint, Excel, Visio, Mind Map, UML Modeling

MISCELLANEOUS

- **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