

Yutai Hou

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| | ☎ +86 18646539069 | Nangang District, Harbin, China |
| Education | Harbin Institute of Technology - Ph.D in CS Advisor: Wanxiang Che | 2017.7 – Present |
| | Harbin Institute of Technology - Bachelor in CS Advisor: Jiqing Han | 2013.9 – 2017.7 |
| Experience | Research Intern - Microsoft Research Asia Mentor: Yingce Xia | 2020.9 – Present |
| | Working on Drug discovery with NLP and low-resource ML. | |
| | Visiting Researcher - Northwestern University (USA) Mentor: Han Liu | 2019.3 – 2018.6 |
| | Working on Meta Learning for few-shot sequence labeling problems. | |
| | Research Intern - Tencent AI lab Mentor: Meng Fang | 2018.6 – 2018.10 |
| | Working on low resource task-oriented chat bot. | |
| Publications | Research Intern - Microsoft Research Asia Mentor: Chin-Yew Lin | 2016.7 – 2017.7 |
| | Working on Data2Text, e.g., generating product description and sport news. | |
| | <ul style="list-style-type: none">• Yutai Hou, Yongkui Lai, Yushan Wu, Wanxiang Che, Ting Liu. Few-shot Learning for Multi-label Intent Detection (AAAI 2021, CCF A)• Yutai Hou, Sanyuan Chen, Wanxiang Che, Cheng Chen, Ting Liu. C2C-GenDA: Cluster-to-Cluster Generation for Data Augmentation of Slot Filling (AAAI 2021, CCF A)• Yutai Hou, Yongkui Lai, Cheng Chen, Wanxiang Che, Ting Liu. Learning to Bridge Metric Spaces: Few-shot Joint Learning of Intent Detection and Slot Filling (ACL 2021, Findings, CCF A)• Yutai Hou, Wanxiang Che, Yongkui Lai, Zhihan Zhou, Yijia Liu, Han Liu, Ting Liu. Few-shot Slot Tagging with Collapsed Dependency Transfer and Label-enhanced Task-adaptive Projection Network. (ACL 2020, CCF A)• Yuxuan Wang, Yutai Hou, Wanxiang Che, Ting Liu. Static to Dynamic Word Representations: A Survey. (JMLC 2020, SCI)• Sanyuan Chen, Yutai Hou, Yiming Cui, Wanxiang Che, Ting Liu, Xiangzhan Yu. Recall and Learn: Fine-tuning Deep Pretrained Language Models with Less Forgetting. (EMNLP 2020, CCF B).• Yutai Hou, Jiafeng Mao, Yongkui Lai, Cheng Chen, Wanxiang Che, Zhigang Chen, Ting Liu. FewJoint: A Few-shot Learning Benchmark for Joint Language Understanding (Preprint 2020)• Yutai Hou, Meng Fang, Wanxiang Che, Ting Liu. A Corpus-free State2Seq User Simulator for Task-oriented Dialogue (CCL 2019 Best Poster Paper)• Yutai Hou, Yijia Liu, Wanxiang Che, Ting Liu. Sequence-to-Sequence Data Augmentation for Dialogue Language Understanding. (COLING 2018, CCF B Citation 60+)• Ruoxi Shi, Hongzhi Wang, Tao Wang, Yutai Hou, Yiwen Tang, Jianzhong Li, Hong Gao. Similarity Search Combining Query Relaxation and Diversification. (DASFAA 2017, CCF B). | |

- Jinpeng Wang, **Yutai Hou**, Yunbo Cao, Chin-Yew Lin. A Statistical Framework for Product Description Generation. (IJCNLP 2017)

Projects

- **Meta Dialog Platform (MDP) (2020)** - Participation: Team leader

A Few-Shot Learning platform for common NLP tasks. url: <https://github.com/AtmaHou/MetaDialog>

- **Few-shot Dialog Understanding (2019)** - Participation: Team leader

Commercial solution for Huawei and CMB bank on few-shot dialogue language understanding.

- **Task-Oriented Dialog Research Progress (2018)** - Participation: Solely responsible.

A tool (**1000+ stars** on Github) traces the progress of dialog research: datasets & SOTA leaderboards. Homepage: <https://github.com/AtmaHou/Task-Oriented-Dialogue-Research-Progress-Survey>.

- **DTP: Dialog Tech Platform (2018)** - Participation: Platform design

A national award-winning project for building commercial chat-bot. url: <http://dtp-cloud.cn/>

- **Xiaodou voice assistant (2015)** - Participation: Front end design & coding.

Intelligent voice assistant app. Award-winning work in IBM Bluemix developer contest

- **Intelligent news robot (2015)** - Participation: Leader of Android clients development.

News voice robot project with both PC and Android clients for Wujie Chuanmei Co. Ltd.

Coding Skill PyTorch, Tensorflow, JavaScript, Django, Python, C++

Leadership

- Responsible person, for self-running journal of the Computer Science School
- Class cadre, responsible for curriculum management and teacher-student communication

Awards

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| National Scholarship | 2020 |
| Best poster paper of CCL2019 | 2019 |
| National University Internet Application Innovation Competition (3rd) | 2018 |
| Microsoft Intern · Rising Star | 2017 |
| HIT Outstanding Graduate | 2017 |
| Top 100 Graduation Thesis | 2017 |
| People Scholarship | 2016, 2015 |
| Suzhou Industrial Park Scholarship | 2016 |
| First Prize, National Mathematical Modeling Contest Northeast Division | 2015 |
| Outstanding Youth League Cadre/ member | 2015, 2014, 2013 |
| Outstanding Student Cadre of the University, twice | 2015, 2014 |
| IBM Bluemix Developer Contest: Best Product Design Award, Mobile Group | 2015 |
| Third Prize, University Group Outstanding Application Award | |