

# Yutai Hou

**Contact**      @    ythou@ir.hit.edu.cn      📍 Room K1228, TIB Building, No. 2 Yikang Street,  
📞    +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.  
**Research Intern** - Microsoft Research Asia | *Mentor: Chin-Yew Lin*      2016.7 – 2017.7  
Working on Data2Text, e.g., generating product description and sport news.

**Publications**

- **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**, 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).
- **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 50+**)
- 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 toolkit platform for NLP Few-Shot Learning tasks. Homepage: <https://github.com/AtmaHou/MetaDialog>

- **Few-shot dialog understanding (2019)** - Participation: Team leader

Commercial project with top domestic company on few-shot dialogue language understanding.

- **Task-Oriented Dialog Research Progress Survey (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. Homepage: <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

<b>Awards</b>	National Scholarship	2020
	<b>Best poster paper of CCL2019</b>	2019
	<b>National University Internet Application Innovation Competition (3rd)</b>	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
	<b>IBM Bluemix Developer Contest:</b> Best Product Design Award, Mobile Group	2015
	Third Prize, University Group Outstanding Application Award	