

# 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**    **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, such as generating product description and sport news.

- Publications**
- **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. (Preprint 2020).
  - **Yutai Hou**, Meng Fang, Wanxiang Che, Ting Liu. A Corpus-free State2Seq User Simulator for Task-oriented Dialogue (CCL 2019 **Best Poster**)
  - **Yutai Hou**, Yijia Liu, Wanxiang Che, Ting Liu. Sequence-to-Sequence Data Augmentation for Dialogue Language Understanding. (COLING 2018 CCF B)
  - 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 (**850+ 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

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| <b>Awards</b> | <b>Best poster paper of CCL2019</b>   | 2019             |
|               | National University Internet Application Innovation Competition (3rd)         | 2018             |
|               | Microsoft Intern · Rising Star  | 2017             |
|               | <b>HIT Outstanding Graduate</b>   | 2017             |
|               | <b>Top 100 Graduation Thesis</b>  | 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                   |                  |