Yutai Hou

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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,** 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, Yushan Wu, Wanxiang Che, Ting Liu. Few-shot Learning for Multi-label Intent Detection (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. (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-wining 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

Awards

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
I**BM Bluemix Developer Contest:** Best Product Design Award, Mobile Group Third Prize, University Group Outstanding Application Award	2015