Yutai Hou

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| Contact | Arroba premium icon  Telephone premium icon | ythou@ir.hit.edu.cn  +86 18646539069 |  | Room K1228, TIB Building, No. 2 Yikang Street,  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*  Working on Drug discovery with NLP and low-resource ML.  **Visiting Researcher** - Northwestern University (USA) | *Mentor: Han Liu*  Working on Meta Learning for few-shot sequence labeling problems.  **Research Intern -** Tencent AI lab | *Mentor: Meng Fang*  Working on low resource task-oriented chat bot.  **Research Intern -** Microsoft Research Asia | *Mentor: Chin-Yew Lin*  Working on Data2Text, e.g., generating product description and sport news. | | | | 2020.9 – Present  2019.3 – 2018.6  2018.6 – 2018.10  2016.7 – 2017.7 |
| 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**, 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-wining project for building commercial chat-bot. url: <http://dtp-cloud.cn/>   * **Xiaodou voice assistant (2015) -** Participation**:** Front enddesign & 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 | **National Scholarship**  **Best poster paper of CCL2019**  **National University Internet Application Innovation Competition (3rd)**  Microsoft Intern · Rising Star  HIT Outstanding Graduate  Top 100 Graduation Thesis  People Scholarship  Suzhou Industrial Park Scholarship  First Prize, National Mathematical Modeling Contest Northeast Division  Outstanding Youth League Cadre/ member  Outstanding Student Cadre of the University, twice  I**BM Bluemix Developer Contest:** Best Product Design Award, Mobile Group Third Prize, University Group Outstanding Application Award | | | | 2020  2019  2018  2017  2017  2017  2016, 2015  2016  2015  2015, 2014, 2013  2015, 2014  2015 |