Boyuan Pan

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RESEARCH INTERESTS

The general areas and applications of machine learning and natural language processing (NLP), especially the recent developments in transfer learning, common sense reasoning, reinforcement learning and adversarial learning to work towards the goal of the combination of language understanding and generation.

EDUCATION

Zhejiang University, Hangzhou, China $09/2016 - present$
Ph.D. (expected June 2021) in Computer Science
Advisers: Prof. Xiaofei He & Prof. Deng Cai

Zhejiang University, Hangzhou, China $09/2012 - 06/2016$
B.S. in Mathematics and Applied Mathematics, GPA: 3.87/4

UCLA, Los Angeles, USA $08/2014 - 09/2014$
Summer Courses: Film Making & Economics

EXPERIENCES

Visiting Scholar $10/2019 - present$
University of Illinois Urbana-Champaign (UIUC), Urbana, USA
Advisor: Prof. Bo Li
- Projects related to dialog and text generation and analyzing the robustness of such systems.

Research Intern $07/2019 - 09/2019$
Alibaba DAMO Academy, Hangzhou, China
- Project of the Artificial Intelligence Center-City Brain.

Visiting Scholar $11/2018 - 05/2019$
Ohio State University (OSU), Columbus, USA
Advisor: Prof. Huan Sun
- Projects of conversation question answering and conversation question generation.

Research Intern $11/2016 - 09/2017$
Eigen Technology, Hangzhou, China
- Project of machine reading comprehension.
- **Achievement:** Rank #2 of the Stanford Question Answering Dataset (SQuAD) leaderboard (Model's name: MEMEN).

HONORS & AWARDS

ZJU Academic Rising Star (Top 1%)	2019
National Scholarship (Top 3%)	2019
He Zhijun Fellowship (Top 1%)	2019
NeurIPS Traveling Award	2018

Outstanding Postgraduate Student Award   2017, 2018, 2019
Outstanding Graduate of Zhejiang University   2016

PUBLICATIONS

Boyuan Pan, Yazheng Yang, Zhou Zhao, Yueting zhuang, Deng Cai. "Bi-Decoder Augmented Network for Neural Machine Translation." In *Elsevier Neurocomputing.* (**Neurocomputing**)

Boyuan Pan, Yazheng Yang, Yueting Zhuang, Deng Cai. "Discriminate and Reconstruct: Learning from Language Model to Answer Keyword Questions." In *The second China Symposium on Cognitive Computing and Hybrid Intelligence.* (**CCHI 2019**)(**Oral**)

Boyuan Pan, Hao Li, Ziyu Yao, Deng Cai, Huan Sun. "Reinforced Dynamic Reasoning for Conversational Question Generation." In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics.* (**ACL 2019**)

Boyuan Pan, Yazheng Yang, Hao Li, Zhou Zhao, Yueting Zhuang, Deng Cai, Xiaofei He. "MacNet: Transferring Knowledge from Machine Comprehension to Sequence-to-Sequence Models." In *Thirty-second Conference on Neural Information Processing Systems.* (**NeurIPS 2018**)

Boyuan Pan, Yazheng Yang, Zhou Zhao, Yueting Zhuang, Deng Cai, Xiaofei He. "Discourse Marker Augmented Network with Reinforcement Learning for Natural Language Inference." In *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics.* (**ACL 2018**)(**Oral**)

Boyuan Pan, Hao Li, Zhou Zhao, Deng Cai, Xiaofei He. "Keyword-based Query Comprehending via Multiple Optimized-Demand Augmentation." In *arXiv preprint arXiv:1711.00179*, 2017.

Boyuan Pan, Hao Li, Zhou Zhao, Bin Cao, Deng Cai, Xiaofei He. "MEMEN: Multi-layer Embedding with Memory Networks for Machine Comprehension." In *arXiv preprint arXiv:1707.09098*, 2017. (**SQuAD Technical Report**)

Xin Guo, **Boyuan Pan**, Deng Cai, Xiaofei He. "Robust Asymmetric Bayesian Adaptive Matrix Factorization." In *Proceedings of the 26th International Joint Conference on Artificial Intelligence.* (**IJCAI 2017**)

INVITED TALKS

September 2019: The second China Symposium on Cognitive Computing and Hybrid Intelligence (CCHI 2019), Xi'an, China.
June 2019: "Deep learning and transfer learning on natural language generation", Alibaba Group, Hanghou, China.
November 2018: The 16th China Symposium on Machine Learning Applications (MLA 2018), Nanjing, China.

PROFESSIONAL SERVICES

Program Committee Member: AAAI (2018), ACL (2018, 2019, 2020), NeurIPS (2019), EMNLP (2020)
Journal Reviewer: IEEE TNNLS