# Haoyu Song

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🖥 https://songhaoyu.github.io/

哈尔滨工业大学
HARBIN INSTITUTE OF TECHNOLOGY

## EDUCATION

**Harbin Institute of Technology** - Computer Science and Technology, Ph.D. Candidate ,                    Sep 2018  - Jul 2022

Supervisor: Professor Ting Liu and Associate Professor Wei-Nan Zhang

Research Focus: Personalized Dialogue Systems

**Harbin Institute of Technology** - Computer Science and Technology, Master                    Sep 2017  - Jul 2018

Supervisor: Professor Ting Liu and Associate Professor Wei-Nan Zhang

Research Interests: Natural Language Processing, Dialogue Systems

**Harbin Institute of Technology** - Computer Science and Technology, Bachelor                    Sep 2013  - Jul 2017

GPA: 90.1, Top 10%

## PUBLICATIONS

**BoB: BERT Over BERT for Training Persona-based Dialogue Models from Limited Personalized Data [C]. ACL 2021.**

Haoyu Song, Yan Wang, Kaiyan Zhang, Wei-Nan Zhang,  Ting Liu

**Generate, Delete, and Rewrite: A Three-Stage Framework for Improving Persona Consistency of Dialogue Generation [C]. ACL 2020.**

Haoyu Song, Yan Wang, Wei-Nan Zhang, Xiaojiang Liu, Ting Liu

**Profile Consistency Identification for Open-domain Dialogue Agents [C]. EMNLP 2020.**

Haoyu Song, Yan Wang, Wei-Nan Zhang, Zhengyu Zhao, Ting Liu, Xiaojiang Liu

**Generating Persona Consistent Dialogues by Exploiting Natural Language Inference [C]. AAAI 2020.**

Haoyu Song, Wei-Nan Zhang, Jingwen Hu, Ting Liu

**Exploiting Persona Information for Diverse Generation of Conversational Responses [C]. IJCAI 2019.**

Haoyu Song, Wei-Nan Zhang, Yiming Cui, Dong Wang, Ting Liu

**DQN based Policy Learning for Open Domain Multi-Turn Dialogues [J]. Journal of Chinese Information Processing, 2018, 32(7):99-107.**

Haoyu Song, Wei-Nan Zhang, Ting Liu

## PROFESSIONAL EXPERIENCE

**Tencent AI Lab, Shenzhen** - Research Intern at Natural Language Processing Center                    Sep 2019  - Sep 2020

- Took part in the research of personalized dialogue systems. The goal is to endow chatbot with a set of attributes and a unique language style. Moreover, the attributes and style need to be consistent yet configurable.
- Took part in the development of the AI Lab Digital Human project.

**IFlytek Research, Beijing** - Research Intern at the Joint Laboratory of HIT and IFlytek                    Jun 2018  - Jun 2019

- Took part in the development of the IFlytek open-platform chitchat system.

- Explored how to generate diversified dialogue resposnes.

## PROJECTS

**Persona Consistency Identification for Tencent AI Lab Digital Human**                    Nov 2019 - May 2020

- Participated in the development of AI virtual idol "Ailing". It is live on Bilibili and could talk, sing, and dance like a real human girl.

- I was responsible for generating persona-related responses and identifying persona contradictions in the conversations to ensure that the digital idol could present a consistent persona.

**Dialogue Response Modules for IFlytek Open-platform Chitchat System**                    Sep 2018 - Jan 2019

- This system is a service in the IFlytek AI platform, and it provides APIs for building a chatbot.

- I was responsible for the retrieval and reranking model in the system and optimizing the time and concurrency performance of the online deployed system.

**Dialogue Generation for Benben Conversational Robot**                    Jun 2017 - Present

- Benben is a Chinese intelligent conversational robot for dialogue research purposes, developed by the Research Center for Social Computing and Information Retrieval. It was presented in the ACL 2017 system demonstration.

- Maintaining and updating the dialogue generation models (rnn seq2seq) and dialogue policy models in Benben since 2017.

## HONORS & AWARDS

National Scholarship                    Nov 2020

CSC Scholarship                    Aug 2020

Ranking 3rd in automatic evaluation in NeurIPS ConvAI2 (23 teams on the leaderboard)                    Sep 2018

Huawei Scholarship                    Oct 2017

Special Scholarship for Outstanding Postgraduates (1 of 19 out of 268 postgraduates)                    Sep 2017

Best Paper Award in the 5th Social Media Processing Conference of China                    Sep 2017

1st-Class People's Scholarship                    Aug 2017

## MISCELLANEOUS

- **Leadership Experience:** Monitor, Secretary of Youth League Branch, Assistant Class Adviser

- **Skills:** Python, Pytorch, Tensorflow, Shell, SQL, Git, Javascript

- **Interests:** Swimming, Skating, Movies