

Zhaohao Zeng

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EMPLOYMENT

Microsoft

Software Engineer Internship

Beijing, China

Sep 2017 – Mar 2018

Mentor: Dr. Ruihua Song

- Work on Xiaoice Science Team (Xiaoice is a natural language chatbot product of Microsoft Research and AI).
- Build deep learning models to attach persona (personality) to Chatbot with Tensorflow and Python.

Silicon Studio

Big Data Engineer Internship

Tokyo, Japan

Oct 2016 – Jan 2017

Mentor: Dr. África Periañez

- Work on Yokozuna Data, a machine learning platform for game data science.
- Build machine learning tools to predict user behaviours (lifespan & spending) for mobile online games using Java and Apache Spark.

EDUCATION

Waseda University

Ph.D & M.Eng in Computer Science

Tokyo, Japan

Sep 2015 – Mar 2021

Supervisor: Prof. Tetsuya Sakai

- Research on Natural Language Processing and Information Retrieval.

University of Liverpool

Bachelor of Engineering in Electronics

Liverpool, UK

Sep 2011 – Sep 2015

Supervisor: Prof. Steve Taylor, Prof. Jason Ralph

- Dual degree program, Xi'an Jiaotong - Liverpool University.

SKILLS

Python, Java, Scala, C, C++, SQL; PyTorch, TensorFlow, Apache Spark, Django, Linux, Git

PUBLICATION

Zhaohao Zeng, Cheng Luo, Lifeng Shang, Hang Li, Tetsuya Sakai: *Evaluating Helpdesk Dialogues: Test Collections and Measures for Evaluating Customer-Helpdesk Dialogues.*, Proceedings of EVIA 2017, pp.1-9, Tokyo, Japan, Dec 2017. **Peer-Reviewed Full Paper**

HONOUR

2015 **Monbukagakusho Honors Scholarship**

The Ministry of Education (MEXT), Japanese Government.

SELECTED PROJECTS

2017 **Neural Networks for Question Answering**

Reproduced gated self-matching recurrent network (R-net) for reading comprehension with PyTorch. Received 40+ stars on Github.

2017 **Fashion Image Classification**

Implemented convolutional networks to classify clothing images on DeepFashion dataset with TensorFlow. Achieved 89.9% top-3 accuracy, which outperformed the original method in the DeepFashion paper.

2016 **Automatic Evaluation of Helpdesk Dialogue**

Built a helpdesk dialogue dataset by crawling dialogues on Weibo. Designed a nugget based measure and a neural network based measure for quantifying the success of each dialogue.

2016 **Google Person Finder**

Contributed to a Google-owned open-source project called Person Finder, which is based on Python, Django and AppEngine. Improved Person Finder's searching, indexing, and query pre-processing modules to make it handles cross-language searching better.

2016 **Cross-Device User Targeting**

Proposed a framework using Gaussian Mixture Model to target users across multiple digital devices to help online advertising publisher track users and recommend items better.

2015 **Automatic University Timetable Scheduling**

Developed a genetic algorithm based solution to automatically schedule timetable to automatically arrange classrooms, students, professors with C++ and Obj-C. Applied closed pattern mining algorithms to accelerate processing.

SERVICE

2019 **Co-organizer**

Short Text Conversation Track, NTCIR-14, National Institute of Informatics

2017 **Student Volunteer**

ACM SIGIR 2017

MOOC CERTIFICATES (Coursera)

University of Washington

University of Washington

Stanford University

Stanford University

John Hopkins University

The University of Tokyo

University of Pennsylvania

University of Illinois at Urbana-Champaign

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University of Illinois at Urbana-Champaign

Practical Predictive Analytics

Data Manipulation at Scale

Machine Learning

Algorithms: Design and Analysis

The Data Scientists Toolbox

From the Big Bang to Dark Energy

Probability

Pattern Discovery in Data Mining

Text Retrieval and Search Engines

Text Mining and Analytics