MA ZHIXIN

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EDUCATION

Bachelor of Computer Science and Technology, **Shandong University** *Sept. 2015 - June. 2019*
Member of **Elite Class** (selected 27 from 450 students) GPA: 86.7/100

EXPERIENCE

Internship mentored by Prof. Tat-Seng Chua
NExT++ Program, National University of Singapore *Jan. 2019 - Present*

SQLPath: Bridging Natural Language to SQL Through the DB Schema

The project aims to translate natural language to SQL (NL2SQL). Instead of implicitly encoding the database scheme into a hidden vector, we first explicitly exploit the dependency relationship in natural language to infer SQL on database scheme.

- We propose SQLPath, a novel representation for SQL. It benefits the NL2SQL task by forcing it to explicitly follow the DB schema;

- We propose a model for path prediction, which leverages on dependency structure in the NL query.

Research Assistant mentored by Prof. Liqiang Nie
iLEARN Lab, Shandong University *Sept. 2017 - Jan. 2019*

Learn to Gesture: Let Your Body Speak *Accepted by ACM MMAsia*
Tian Gan, **Zhixin Ma**, *Yuxiao Lu, Xuemeng Song, Liqiang Nie*

The goal of our project is to analyze the correlation between speech and body language for human communication.

- We developed a speech audio and human visual skeleton dataset with 2,582 unique TED talk videos;

- We proposed a hierarchical structure to model the continuity of body language and transfer probability between different gestures.

PUBLICATION

Learn to Gesture: Let Your Body Speak *ACM MMAsia, 2019*
Tian Gan, **Zhixin Ma**, *Yuxiao Lu, Xuemeng Song, Liqiang Nie*

INTERNATIONAL PATENT

Methods for automatically generating human interaction body language Dec. 2018
Application No.: PCT/CN2018/122942

ACHIEVEMENTS

Advanced Individual of Innovation, Shandong University *Spring 2018*
The First Prize in CUMCM, Province Level *Summer 2017*
The Third Prize Scholarship, Shandong University *Spring 2017*
MCM/ICM Meritorious Winner, National Level *Spring 2017*
The Third Prize Scholarship, Shandong University *Spring 2016*

SKILLS

TOEFL	92
GRE	318
Programming Languages	Python, Java, C/C++
Deep Learning Framework	PyTorch, Tensorflow, MXNet
Software & Tools	LaTeX