Jinghao Niu

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EDUCATION

Institute of Automation Chinese Academy of Sciences (CASIA) *Beijing*
Ph.D. in Artificial Intelligence, supervised by Prof. Wenshng Zhang *Expected May 2020*

Shandong University (SDU) *Jinan, Shandong*
B.E. in Automation Engineer Techology *Sep 2011 - June 2015*
- President Scholarship of SDU (**0.075%**); National Scholarship (**1%**)

National Tsing Hua University (NTHU) *Hsinchu, Taiwan*
Exchange Student, Institute of Electronics Engineering *Sep 2013 - Jan 2014*
- Exchange Fellowship, The Li-Ching Cultural and Educational Foundation.

RESEARCH INTERESTS

- Knowledge Representation and Reasoning
- Natural Language Processing
- Multimodal Medical Information Processing (e.g., ECG and EHR)

RESEARCH PROJECTS & COMPETITIONS

Household Heart Sound Monitoring System Based on AI Algorithms *Nanjing, Jiangsu*
2th *place* **(2/1018)** *in Global Artificial Applicaiton Competition,* **Team Leader** *Aug 2018*

Clinical 12-lead ECG Automatic Classification System *Beijing*
Cooperated with **301 Hospital** *and* **Medicalsystem** *Co.,Ltd.,* **Core Code Contributor** *Jan 2018 - present*

Online Medical Question-Answering System *Zhuhai, Guangzhou*
Zhuhai Healthcare Cloud Technology Co., Ltd., Code Contributor *Nov 2016 - Jun 2017*

PUBLICATIONS

- **Jinghao Niu**, Yongqiang Tang, Zhengya Sun, Wensheng Zhang. Inter-Patient ECG Classification with Symbolic Representations and Multi-Perspective Convolutional Neural Networks., In Submission
- **Jinghao Niu**, Yehui Yang, Siheng Zhang, Zhengya Sun, Wensheng. Multi-task Character-Level Attentional Networks for Medical Concept Normalization. *Neural Process. Lett.*, 2018.
- **Jinghao Niu**, Zhengya Sun, Wensheng Zhang. Enhancing Knowledge Graph Completion with Positive Unlabeled Learning. *ICPR*, 2018.
- Siheng Zhang, Wensheng Zhang, **Jinghao Niu**. Improving Short-Text Representation in Convolutional Networks by Dependency Parsing. *Knowl. Inf. Syst.*, 2018.
- Wensheng Zhang, **Jinghao Niu**. An Approach to Construct the Medical Knowledge Graph for Diagnosis Based on the Word Vector. CN Patent, Application No. CN201611222893.X
- **Jinghao Niu**, Wei Zhang. Comparative Analysis of Statistical Models in Rainfall Prediction. *ICIA*, 2015.

SKILLS & INTERESTS

- **Programming:** Linux, Python, Matlab, Tensorflow/Keras/Pytorch
- **Language:** Mandarin (native), English (fluent)
- **Debate**: Two Consecutive **Championships & Best Debaters**, College Debating Competition in SDU.
- **Writing & Editing:** Former Journalist/Editor of SDU website, Scholarship for outstanding campus journalist in Shandong Province (**18 students per year**).