Shuai Ma
Curriculum Vitae

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I am a third (final) year M.D. candidate supervised by Prof. Feng Tian at ISCAS HCI Lab. My primary research focuses on AI-supported HCI and Human-engaged AI. My research interests include User Modeling, AI-Human Collaboration, Interactive (Human-in-the-loop) Machine Learning.
I will graduate in 2020 Summer and I am applying for a Ph.D. offer in HCI.

EDUCATION

2017–2020	**University of Chinese Academy of Sciences**, *School of Computer Science*.
	Master of Computer Science and Technology, GPA Rank: $1^{st}/12$
2013–2017	**Harbin Institute of Technology**, *School of Computer Science*.
	Bachelor of Software Engineering, GPA Rank: $4^{th}/150$

PUBLICATIONS

2019   [J.1]   Jin Huang, **Shuai Ma**, Feng Tian, Xiang Li, Jie Liu, Hongan Wang. Identifying Gait Abnormality with a Single Click. *Science China Information Sciences (SCIS)*.

          [C.5]   **Shuai Ma**. What Did I Miss? Assisting User adaptive Missed Content Reviewing in MOOC Learning. In *Proc. UIST2019 EA*. (Got Full Review Score: 5/5)

          [C.4]   **Shuai Ma**, Zijun Wei, Feng Tian, Xiangmin Fan, Jianming Zhang, Xiaohui Shen, Zhe Lin, Jin Huang, Radomir Mech, Dimitris Samaras, and Hongan Wang. SmartEye: Assisting Instant Photo Taking via Integrating User Preference with Deep View Proposal Network. In *Proc. CHI2019*. Honorable Mention Award

          [C.3]   Yunzhi Li, Liuping Wang, **Shuai Ma**, Xiangmin Fan, Zijun Wang, Junfeng Jiao, and Dakuo Wang. Human-AI Interaction in Healthcare: Three Case Studies About How Patient(s) And Doctors Interact with AI in a Multi-Tiers Healthcare Network. In *Proc. CHI2019 Workshop*.

2018   [C.2]   Jing Gao, Feng Tian, Junjun Fan, Dakuo Wang, Xiangmin Fan, Yicheng Zhu, **Shuai Ma**, Jin Huang, and Hongan Wang. Implicit Detection of Motor Impairment in Parkinson's Disease from Everyday Smartphone Interactions. In *Proc. CHI2018 EA*.

          [C.1]   Liuping Wang, Xiangmin Fan, Feng Tian, Lingjia Deng, **Shuai Ma**, Jin Huang, and Hongan Wang. mirrorU: Scaffolding Emotional Reflection via In-Situ Assessment and Interactive Feedback. In *Proc. CHI2018 EA*.

EMPLOYMENT EXPERIENCE

2018.1–2018.3	**Netease Beijing　R&D Center　Youdao NLP Group,** A Rule-Based MT Model for Classical Chinese - Modern Chinese Translation
	Built a dictionary of regular words in classical Chinese and developed a segmentation method based on RMM.
	Built a phrase-based model for translation and got a BLEU score of 0.91 (unigram), 0.84 (bigram) and 0.71 (trigram).
2017.6 –2017.8	**Alibaba Health　Machine Learning Group,** Wave Form Recognition Model in Electrocardiogram (ECG) Signal

Implemented ECG recognition model proposed by Andrew Ng to detect P,Q,R,S,T wave in ECG signal. Model was trained on MIT-BIH dataset and tested on ECG data from real patient and got an average accuracy of 99.3%.

Designed a 5-dimensional feature vector and deployed agglomerative clustering method to merge similar clusters to recognise 4 kinds of noise (MA, WB, MI, ACI). The proposed method achieved Sn: 88.05%, Sp: 92.46%, Ac: 91.22% on real ECG dataset.

2016.9–
2017.5
Institute of Software, Chinese Academy of Sciences   HCI Lab, Evaluation of neurological function in mobile environment based on MRI

Explored the feasibility and accuracy of detecting motor impairment in early PD via sensing and analyzing users' common touch gestural interactions on smartphones.

Investigated four types of common gestures, including flick, drag, pinch, and handwriting gestures, and propose a set of features to capture PD motor signs.

PAPER REVIEWING

CHI '19, '20

AWARDS AND HONORS

2019 President Scholarship in Chinese Academy of Sciences

Award for Excellent Papers at the Annual Academic Conference of ISCAS

ACM CHI 2019 Honorable Mention Award (1st author)

2018 National Scholarship for Graduate

Pacemaker to Merit Student of University of Chinese Academy of Sciences

Pacemaker to Merit Student Cadre of University of Chinese Academy of Sciences

Excellent Communist Party Member of University of Chinese Academy of Sciences

2017 Excellence Award for Science Creation Program of Chinese Academy of Sciences

Special Award for Undergraduates of Harbin University of Technology

The best 10 students in Harbin Institute of Technology (Ma Zuguang Scholarship)

Excellent Graduates of Province (*Top*1%)

Excellent Graduates in Harbin Institute of Technology

2016 National Scholarship for Undergraduate

2013–2017 Outstanding regiment soldiers (every year)

Outstanding student cadres (every year)

Pacemaker to Merit Student (every year)

Pacemaker to Merit Student Cadre (every year)

COMPETITIONS

2018 Huawei Cup Free Software Programming Competition *Winner*

2018 Kaggle WAD Video Segmentation Challenge (CVPR 2018). Semantic Segmentation and Recognition of Road Vehicles *Rank:* $4^{th}/141 \ teams$

2018 6th Emotion Recognition in the Wild Challenge (EmotiW 2018). Audio-video Emotion Recognition *Rank:* 13th

2016 5th National Marine Vehicle Design and Manufacturing Competition *Winner*

2016 18th National Robot Championship *Winner* $*2$

2015 *Tianchi* Big Data Competition-Sina Weibo Interactive Prediction *Top* 5%