

Xinyao Ma

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Room 523, Building One, Institute of Semiconductors, CAS, Beijing, P.R. China, 100083

Education

Taiyuan University of Technology

September 2013 – July 2017

Bachelor of Engineering Major: Software Engineering

GPA (overall): 3.4/4.0 Rank: 2/30 (in class) TOEFL: 98

Key Courses: Multimedia Technology & Applications (95), Large-Scale Database Systems (92)

Research Experience

Institute of Semiconductors, Chinese Academy of Science

July 2016 – Present

Research Assistant (full-time 40h/week)

- Designing a hybrid system to combine eye-tracking and brain-computer interface
- Developing algorithms to process different data
- Building experiment environment with Unity3D and Python on HTC VIVE virtual reality platform
- Achieved a text entry speed of 1.1s per character and an accuracy of 96%
- Wrote 4-page paper and submitting it to national Human-Computer Interaction conference

TUT Scientific Cloud Computing Center

October 2015 – February 2017

Intern (part-time 15/week)

- Managed team members and took responsibility for daily lab work duties
- Used Linux system to program distributed system
- Participated in the ASC17 (Asia Student Supercomputer Challenge) competition; completed parallel programming, optimized large programs, wrote 5 pages out of a 15-page proposal
- Gained rank of 23 out of 230 universities from around the world

Paper: Xinyao Ma, Zhaolin Yao, Yijun Wang, Weihua Pei, Hongda Chen. Combining Brain-Computer Interface and Eye-tracking for High-Speed Text Entry in Virtual Reality, ACM IUI 2018 (Intelligent User Interface), Acceptance rate: 23%. <https://doi.org/10.1145/3172944.3172988>

Xinyao Ma, Zhaolin Yao, Yijun Wang, Weihua Pei, Hongda Chen. Low Cost Eye-tracking facilities SSVEP Detection in High-speed BCI Speller, HCII 2018 (Human-Computer Interaction International); accepted.

Professional & Activities

Sram Technology Company (Taiyuan, Shanxi)

June – August 2014

Intern

- Developing Android APP for campus student to watch and share videos
- Used Java and Eclipse programming tools
- Published app on Android app store

TUT University Website

2013 – 2015

Official Photographer

- Took pictures at major school events; processed photos and video clips
- Maintained and upgraded student forum

Asia Student Supercomputing Challenge 15

April 2015

Volunteer Translator

- Translate for students from foreign universities in their daily life
- Help International students in communicating with local students

TUT Student Union

2013 – 2014

Director of Publicity Department

- Helped students interact with school faculty
- Organized a series of activities for students

Awards & Honors

Merit Student Scholarship (three consecutive years)	<i>2015 – 2017</i>
Excellent Photographer Award (University Website)	<i>2015</i>
Excellent Volunteer, ASC15	<i>2015</i>

Technical Competencies

Programming languages: Java, Python, C#, HTML
Development programming: Unity 3D, Virtual Reality, Eclipse
Other skills: Adobe Photoshop, Premiere, After Effects