**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 form 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) *2015 – 2017*

Excellent Photographer Award (University Website) *2015*

Excellent Volunteer, ASC15 *2015*

**Technical Competencies**

Programming languages: Java, Python, C#, HTML

Development programming: Unity 3D, Virtual Reality, Eclipse

Other skills: Adobe Photoshop, Premiere, After Effects