Haozhe Su

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EDUCATION

University of Science and Technology of China(USTC) Hefei, China

- B.S. in Nuclear and Particle Physics, School of Physical Sciences *Aug. 2014-(expected) Jun. 2018*
- GPA: 3.57/4.30 or 86.39/100.00

RESEARCH EXPERIENCES

- **Study of J/$\psi \to \gamma K_s \mathrm{K}_s \pi^0$ Using Data Collected With BESIII Detectors** ***(Presentation)***
  Department of Modern Physics, USTC *Feb. 2017- Oct. 2017*
  ***Advisor*: A/Prof.Dr.Yingchun Zhu**
  - Implemented event selections, background estimations and signal fitting.
  - Made comparisons between data and M-C simulation results.
- **Study of Uniform Magnetic Field in the Prototype 3D Magnet** ***(Presentation)***
  Summer Research Program, University of Tennessee, Knoxville *June. 2017- Aug. 2017*
  ***Advisor*: Prof.Dr.Yuri Kamyshkov**
  - Examined the prototype 3-D magnet for future study of mirror neutrons.
  - Performed calculations of 3-D magnetic field in developed C++ code, with environmental magnetic field measured and subtracted.
  - Analyzed magnet performance data and compared them to calculation results.
  - Examined measurement errors and found their sources.
- **Energy Regeneration System Based on Piezoelectric Effect** ***(Presentation)***
  Electronic Circuit Laboratory, USTC *Sept. 2016- Dec. 2016*
  ***Advisor*: A/Prof.Dr.Xiantao Wei**
  - Selected proper material(PZT) and chose its shape and size.
  - Decided an appropriate way to support the PZT pieces and designed an integration system, which was a device that accomplished triggering, energy conversion and storage.
  - Calculated the power that it produced when we exerted a certain force on it.
- **Neutron-Transport Simulation Using M-C Method**
  Department of Modern Physics, USTC *Nov. 2016*
  ***Advisor*: Prof.Dr.Renyou Zhang**
  - Utilized Direct Simulation Monte Carlo Method (DSMC) and the Improved Monte Carlo Method(Weighted Method) to simulate the movement of neutrons.
  - Calculated transmittance and energy distribution of transmitted neutrons.

ACADEMIC HONORS & REWARDS

- Institute of High Energy Physics Scholarship *Apr. 2017*
- Excellent Student Scholarship *Sept. 2015/Sept. 2016/Sept. 2017*
- Third Prize in the Optics Paper Competition *Dec. 2015*
- Third Prize in the 2014 National English Competition for College Students *Oct. 2014*
- Outstanding Freshman Scholarship *Sept. 2014*

STANDARDIZED TESTS

- **GRE General**: **169** (Quantitative Reasoning)+**155** (Verbal Reasoning)+**3.0** (Analytical Writing)
- **TOEFL iBT**: **29** (Reading)+**28** (Writing)+**24** (Listening)+**20** (Speaking)=**101**

SKILLS

- **Familiar with** SpectraMag-6, Origin, C/C++, Maya, Java, CERN Root, LaTeX

STUDENT WORK & ACTIVITIES

- **Assistant** of 2016 Undergraduate Recruitment of USTC. *Jun. 2016*
- **Member** of 3-D Animation & Special Effects Group. *(Works)* *Sept. 2015-Jan. 2016*
- **Member** of Basketball Team of School of Physical Sciences. *Mar. 2015-Present*
- **Member** of the Art of Pottery Group. *(Works)* *March. 2015-Present*
- **Member** of Propaganda Department of Association of Scientific Expedition of USTC. *Sept. 2014-Present*