

# Zheng Xiong, Ph.D. Student

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## Education

- 2019 – now    **Ph.D., Institute of High Energy Physics** in Beijing China.  
Thesis title: *Low-Cost Mana Generation in Under-Resourced Environments.*
- 2015 – 2019    **Bachelor.Engineering. Material Science and Engineering, Wuhan University of Technology** in Wuhan Hubei China.  
Thesis title: *The first principle calculation on the optical property on Barium-based complex perovskite ( $Ba(B'B'')O_3$ ) ceramic .*

## Research Publications

### Journal Articles

- 1 Z. Xiong, S. Wu, and H. H. He, “Method to measure muon content of extensive air showers with lhaaso km2a-wcda synergy,” *PeerJ Preprints*, vol. 4, e2205v1, 2022, ISSN: 2167-9843. [DOI](#): 10.7287/peerj.preprints.2205v1.
- 2 L. Chen, Z. Xiong, C. Li, S. Chen, and H. He, “Strong constraints on lorentz violation using new  $\gamma$ -ray observations around pev,” *Chinese Physics C*, vol. 45, no. 10, p. 105 105, 2021.

### Conference Proceedings

- 1 Z. Xiong, S. Wu, and H. H. He, “Measurement of cosmic-ray electrons with lhaaso km2a-wcda synergy,” Nagoya, Japan, 2023.
- 2 Z. Xiong, S. Wu, and H. H. He, “Method to measure muon content of extensive air showers with lhaaso km2a-wcda synergy,” Nagoya, Japan, 2023.





## Popular Science Writing / Translation

### Articles and Blogs

- 1 Z. Xiong and X. Q. Dong, “在校园捕捉来自宇宙的信息——2021年“国际宇宙日”活动概览(to capture the information from universe at campus - digest on 2021 cosmic day),” *Modern Physics*, vol. 34, no. 02, pp. 47–53, 2022, ISSN: 1001-0610. [DOI](#): 10.13405/j.cnki.xdwz.2022.02.017.
- 2 ParadoX, “超越费米悖论(Beyond Fermi Paradox),” in ser. Beyond Fermi Paradox 8/16, Mar. 2021. [URL](#): <https://mp.weixin.qq.com/s/9EqbGyC7wJtVuMysE7N1sA>.
- 3 ParadoX, “天文学家如愿以偿得到了想要的的数据,却发现“哈勃常数危机”加剧了(Astronomers Get Their Wish, and a Cosmic Crisis Gets Worse),” in ser. IHEP Doctorial Scope 1/3, Dec. 2020. [URL](#): [https://mp.weixin.qq.com/s/hPDKQVW60trVTOAw8Mrp\\_A](https://mp.weixin.qq.com/s/hPDKQVW60trVTOAw8Mrp_A).
- 4 ParadoX, “天文学家的备忘手册(Astronomer’s Toolbox),” in ser. Astronomer’s Toolbox, 2020. [URL](#): <https://mp.weixin.qq.com/s/10kYWIxJZn-FotJNb-BAA>.

## Skills



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- Languages     Strong reading, writing, and speaking competencies for English, Mandarin Chinese, Japanese.
- Coding        C, C++, Python, cuda,  $\LaTeX$ , ...
- Software     CERN ROOT, Corsika, GEANT4
- Misc.         Academic research, teaching, training, consultation,  $\LaTeX$  typesetting and publishing.



## Miscellaneous Experience

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### Awards and Achievements

- 2016 - 2019     **WHUT Prize for Outstanding Student Performance**, Wuhan University of Technology.
- 2021 - 2022     **Department Prize for Outstanding Student Performance**, Institute of High Energy Physics.

### Certification

- 2018         **Certified Advanced Students Training.** Awarded by XLAB Göttinger Experimentallabor in Georg-August-Universität Göttingen.
- 2006         **Certified Data Analysis Skill.** Awarded by LHAASO Collaboration 2022 Summer School.

## References

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### Prof Sha Wu

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