

Curriculum Vitae

Xiao Luo

Personal Information

Date of Birth: 01/1995

Nationality: the People's Republic of China

Gender: Male



Current Address

University of Science and Technology of China

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Education Background

Academic:.

- Sept. 2014~June 2018 Bachelor of Engineering in Harbin Engineering University, specialized in nuclear engineering and technology. Harbin, China.
- Sept. 2018~Present Ph.D. Candidate in University of Science and Technology of China, specialized in nuclear science and technology. Hefei, China

Additional Courses:

- The 12th World Nuclear University (WNU) Tsinghua Week Training Seminar, Yantai, China, 2-6 July (2017).

Language Proficiency

- Chinese (mother tongue).
- English (good reading, writing and speaking).

Theses

PhD Thesis in Nuclear Science and Technology (In progress)

“Study on flow blockage accident of lead-cooled fast reactor based on multi-scale coupling method”, Current PhD topics, School of Nuclear Science and Technology. University of Science and Technology of China. (2018~present).

Bachelor Degree Thesis in Nuclear Engineering

“Analysis of fluid-structure interaction (FSI) characteristics of fuel assemblies with different configurations”, College of Nuclear Science and Technology. Harbin Engineering University. June (2018).

Research Experience

1. Development of subchannel analysis code for blockage accident of Liquid Metal Fast Reactor, (2019-, In progress).
2. Development of system analysis code coupling interfaces based on the unified coupling interface concept ICoCo and unified data transfer model MED library, (2020-, In progress).
3. Research and application of reactor multi-physics coupling framework, (2019-2020, Finished).
4. Automated core design code development for a lead-cooled fast reactor and its core optimization, (2018-2019, Finished).
5. Analysis of fluid-structure interaction (FSI) characteristics of fuel assemblies with different configurations, (2017-2018, Finished).

Publications

- [1] Luo, Xiao, et al. "Automated core design code development for a lead-cooled fast reactor and its core optimization." *International Journal of Energy Research* (2021) doi: <https://doi.org/10.1002/er.5553>
- [2] 罗晓, et al. "铅冷快堆多物理耦合分析方法及三维瞬态特性研究." *核动力工程* 42.S1(2021):11-16. doi:10.13832/j.jnpe.2021.S1.0011.

Scholarships and Awards

1. 1st.-class scholarship in Harbin Engineering University, (2017).
2. 2rd.-class scholarship in Harbin Engineering University, (2015).
3. 3rd.-class scholarship in Harbin Engineering University, (2016; 2018).
4. Harbin Institute of Marine Science and Technology Scholarship, (2015).
5. National Inspirational Scholarship of China, (2016; 2017)
6. 2rd. prize of "Nuclear + x" Creative Competition, (2017)
7. 2rd prize of Heilongjiang Division of the 2016 National College Students Mathematical Contest in Modeling, (2016)

Other Skills

1. Familiar with C++, Python and Fortran language, and have related project experience.