

Yu-Jie Cen (he/him)

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EDUCATION

School of Physics and Optoelectronics, South China University Of Technology

M.S. | Degree in Theoretical Physics (2020.9-2023.6)

B.S. | Degree in Applied Physics (2016.9-2020.6)

RESEARCH EXPERIENCE

- Mentored by [Xiao-Bao, Yang](#) and [Yu-Jun, Zhao](#) in the [Computational Condensed Matter Physics Group](#).
 - A method for screening ground state candidate structures is proposed to accelerate high-throughput first-principle calculation.
 - Improving search efficiency of special quasirandom structures (SQS) in high-entropy alloys by supervised learning.
 - Search for the ground state structure of two-dimensional boron monolayers by structural self-assembly methods.
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PUBLICATIONS

- Yu-Jie Cen, Chang-Chun He, Shao-Bin Qiu, Yu-Jun Zhao, and Xiao-Bao Yang, Determining ground states of alloys by a symmetry-based classification, [Phys. Rev. Materials 6, L050801 \(2022\)](#).
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SKILLS

- Experienced in Python and Matlab. Working knowledge of Linux systems/tools.
 - Scientific computing and machine learning (ML) expertise for physical science problems. Experienced in parallel computation.
 - First-principles calculations experience (VASP), such as Formation Energy, Band, DOS, Elastic Modulus and so on.
 - Latex and Markdown.
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FELLOWSHIPS AND AWARDS

Outstanding Graduate student (2020)

School scholarship (2017-2019)

TEACHING AND OTHER EXPERIENCE

Administrator of the computing server (approximate 1300 cpu cores) in [CCMPG](#) (2021 - now)

Teaching assistant of General physics (2021.9 - 2022.1)

[China Undergraduate Physics Tournament](#) (2017-2018)