

Zhaohui Huang

Department of Mechanics and Engineering Science
College of Engineering, Peking University
Beijing, 100871, China

Email: zhaohui696@pku.edu.cn
Phone: +86 18811711781



EDUCATION

Ph.D. Engineering Mechanics, Peking University, 2020-present
B.S. Theoretical and Applied Mechanics, Peking University, 2016-2020

RESEARCH AREAS

1. Granular materials: jammed packings of non-spherical particles and mechanical properties.
2. Inverse design of materials: the pursuit of perfect packings and geometrically densest packings.

PROFESSIONAL EXPERIENCE

Teaching Assistant

2021 Computational Methods (Undergrad. Level), Peking University
2020 Engineering CAD (Undergrad. Level), Peking University

AWARDS

2022 Lee Wai Wing Scholarship
2021 Outstanding Research Award

SCIENTIFIC COMPUTING

Programming

C++, C, Python.

Software

experience in Auto CAD, Ovito, etc.

PUBLICATIONS

Journal Articles

- 2023 **Huang Z**, Deng W, Zhang S, et al. “Optimal shapes of disk assembly in saturated random packings.” *Physical Chemistry Chemical Physics*, **forthcoming**.
- 2022 Wang Y, Deng W, **Huang Z**, et al. “Descriptor-free unsupervised learning method for local structure identification in particle packings.” *The Journal of Chemical Physics*, 2022, 156(15): 154504. <https://doi.org/10.1063/5.0088056>
- 2021 **Huang Z**, Deng W, Yuan Y, et al. “Determining the equivalent packing diameter of two-dimensional shapes.” *Powder Technology*, 2022, 396: 565-577. <https://doi.org/10.1016/j.powtec.2021.11.022>

Working Papers

Huang Z, Zhou X, Jin W, et al. “Shape and space filling: a review on particle packing.”

CONFERENCE ACTIVITY

- 2022 12th Natl. Conf. on Soft Matter and Biological Physics. Wenzhou, China.
- 2021 Chinese Physical Society Fall Meeting. Lanzhou, China.