

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

PROFESSIONAL EXPERIENCE

Teaching Assistant

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

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.

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.

SCIENTIFIC COMPUTING

Programming

C++, C, Python, TeX.

Software

experience in Auto CAD, Ovito, etc.

AWARDS

- 2022 Lee Wai Wing Scholarship
2021 Outstanding Research Award