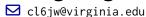
Changming Liu



lcmwan53.github.io

Employment History

2017 - 2018

Research Assistant

Department of Chemical Engineering, Tsinghua University

2015 - 2016

Researcher

BGI.GBI Corporation, Beijing, China

Education

2021 - Now

University of Virginia, Charlottesville, VA, USA

Master Student in Computer Engineering (cumulative GPA: 3.77). Took courses and developed a deep understanding in:

- Matrix
- Probability Theory
- Statistics
- Algorithm

2018 – 2021

University of Virginia, Charlottesville, VA, USA

M.S. in Chemical Engineering

- Researched on quantum mechanics and machine learning.
- Used python-based tools to solve problems in computational chemistry.
- Developed neural network models to predict properties of chemicals.

2011 - 2015

East China University of Science and Technology, Shanghai, China B.E. in Pharmaceutical Engineering

Research Publications

- Liu, C., Wijewardena, D. P., Sviripa, A., Sampath, A., Flaherty, D. W., & Paolucci, C. (2022). Computational and experimental insights into reactive forms of oxygen species on dynamic ag surfaces under ethylene epoxidation conditions. *Journal of Catalysis*, 405, 445–461.
- Bregante, D. T., Wilcox, L. N., Liu, C., Paolucci, C., Gounder, R., & Flaherty, D. W. (2021). Dioxygen activation kinetics over distinct cu site types in cu-chabazite zeolites. *ACS Catalysis*, 11, 11873–11884.
- Wang, K., Wu, C., Wang, F., Liu, C., Yu, C., & Jiang, G. (2018). In-situ insertion of carbon nanotubes into metal-organic frameworks-derived α -fe203 polyhedrons for highly sensitive electrochemical detection of nitrite. *Electrochimica Acta*, 285, 128–138.
- 4 Huang, K., Boerhan, R., Liu, C., & Jiang, G. (2017). Nanoparticles penetrate into the multicellular spheroid-on-chip: Effect of surface charge, protein corona, and exterior flow. *Molecular pharmaceutics*, 14(12), 4618–4627.
- Zhang, C., Zhou, Y., Gu, S., Wu, Z., Wu, W., Liu, C., ... Lee, P. W. et al. (2016). In silico prediction of herg potassium channel blockage by chemical category approaches. *Toxicology research*, *5*(2), 570–582.

Skills

Strengths

Curious, hardworking, innovative, and a man of integrity.

Languages

Chinese, English

Coding

Python, Java, JavaScript

Misc.

Comprehensive understanding of matrices, tensors, and topology Machine learning

Data analysis Probability