

Zhengyang Liu | Resume

Department of Chemical Engineering and Materials Science,
College of Science and Engineering, University of Minnesota,
421 Washington Ave SE, Minneapolis, MN 55455-0132, USA

<https://zloverty.github.io>

Email: liux3141@umn.edu

Phone: (+1) 612-404-5702

SKILLS

Characterization: Rotational, capillary rheometers; DSC, TGA
Programming: Python, MATLAB, Fortran
Simulation: MD, BD, DPD
Polymer: Basic knowledge on polymer processing and synthesis

EDUCATION

University of Minnesota

Ph.D. candidate, Chemical Engineering

Advisor: Prof. Xiang Cheng

Minnesota, USA

09/2015–present

Tsinghua University

B.E., Polymer Materials and Engineering

Advisor: Prof. Li-Tang Yan

Beijing, China

09/2010–07/2014

PUBLICATIONS

Submitted

□ *Imaging the emergence of bacterial turbulence using light-powered Escherichia coli*

Y. Peng, **Z. Liu** and X. Cheng

Published

□ *Rheology of bacterial suspensions under confinement* [\[arXiv\]](#) [\[PDF\]](#)

Z. Liu, K. Zhang, X. Cheng, *Rheol. Acta* **58**, 439-541 (2019)

□ *Entropy-mediated mechanical response of the interfacial nanoparticle patterning* [\[link\]](#) [\[PDF\]](#)

Z. Liu, R. Guo, G. Xu, Z. Huang, L.-T. Yan, *Nano Lett.* **14**, 6910-6916 (2014)

PRESENTATIONS

□ *Rheology of bacterial suspensions under confinement*

91st Society of Rheology Meeting, Raleigh, NC

10/2019

□ *Understanding the effect of confinement on the viscosity of bacterial suspensions*

APS March Meeting 2019, Boston, MA

03/2019

[slides](#)

□ *Viscosity of confined bacterial suspensions*

90th Society of Rheology Meeting, Houston, TX

10/2018

□ *Rheology of bacterial suspensions under confinement (poster)*

91st Society of Rheology Meeting, Raleigh, NC

11/2019

[poster](#)

□ *Rheology of bacterial suspensions under confinement (poster)*

2019 IPRIME Annual Meeting, Minneapolis, MN

05/2019