

Tianju Xue (薛添驹)

Ph.D. Student, Princeton University

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Education

- 2017–Present **Ph.D. Student**, *Princeton University*.
Research Interest: Machine Learning, Numerical Simulation
Advisors Prof. *Ryan P. Adams* and Prof. *Sigrid Adriaenssens*
- 2013–2017 **B.Sc.**, *Shanghai Jiao Tong University*.
Mechanical Engineering (UM-SJTU Joint Institute), GPA - 3.80/4.0 (ranking 1/53)
- 2016 **Exchange Student**, *The University of Hong Kong*.
Mechanical Engineering

Experience

Working

- 2019 **Research Intern**, Facebook, Inc., Redmond.
AR/VR at Facebook Reality Labs: Deep learning accelerated 3D printing material design
- 2017 **Engineering Intern**, Apple, Inc., Shanghai.
Apple accessories team: Keyboard design and manufacturing

Teaching

- 2017–Present **Graduate Teaching Assistant**, Princeton University.
COS424 Fundamentals of Machine Learning
CEE205 Mechanics of Solids
- 2013–2017 **Undergraduate Teaching Assistant**, Shanghai Jiao Tong University.
VM382 Mechanical Behaviour of Materials
VP140 Physics

Publications

- T.Xue**, A.Beatson, S.Adriaenssens and R.Adams, Amortized Finite Element Analysis for Fast PDE-Constrained Optimization, *ICLR Workshop on ODE/PDE+DL*, April 2020.
- Y.Wan, **T.Xue** and Y.Shen, The successive node snapping scheme for an evolving branched curve in 2D and 3D, *Computer-Aided Design*, June 2019.
- Y.Wan, **T.Xue** and Y.Shen, The successive node snapping scheme: A method to obtain conforming meshes for an evolving curve in 2D and 3D, *Finite Elements in Analysis and Design*, Jan 2019.
- M.Ma, **T.Xue**, S.Chen, Y.Guo, Y.Chen and H.Liu, Features of structural relaxation in diblock copolymers, *Polymer Testing*, July 2017.

Selected Honors

2017	Gordon Y.S. Wu Fellowships	<i>A highly prestigious award at Princeton University</i>
2016	The Merit Student Model	<i>Person of the year at Shanghai Jiao Tong University</i>
2015	National Scholarship	<i>Top scholarship for undergraduate students in China</i>

Skills

Tools Matlab, \LaTeX

Programming Languages Python, C/C++

Languages

Mandarin

Native

English

TOEFL: 111/120