Zhen Yang

PRESENT ADDRESS
Macdonald Engineering Building, McGill University
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PERMANENT ADDRESS
1211 Drummond
Montreal, QC, Canada H3G 0E6

EDUCATION

McGill University, Montreal, Canada
Ph.D, Mechanical Engineering (advisor:Dr.Jianyu Li)
September 2019-present
Major, Solid Mechanics, Soft Material

University of Alberta, Edmonton, Canada
M.Sc., Mechanical Engineering (advisor:Dr.Tian Tang)
January 2017-January 2019
Major, Solid Mechanics, Adhesion
G.P.A. 3.9/4.0

University of Alberta, Edmonton, Canada
B.S., Mechanical Engineering
September 2012-December 2017
G.P.A. 3.7/4.0

RESEARCH EXPERIENCE

Ph.D. Student	McGill University	Fall 2019-Present
Supervisor: Dr.Jianyu Li	Mechanical Engineering	
	Montreal, Canada	

Project: Mechanically Active Adhesives Capable of Stimuli-controlled Adhesion

Research Assistant	University of Alberta	January 2019-August 2019
Superviosr: Dr.Tian Tang	Mechanical Engineering	
	Edmonton, Canada	

Project: Bio-Inspired Interfaces for Easy-to-Recycle Lithium-Ion Batteries.

M.Sc. Student	University of Alberta	January 2017-January 2019
Supervisor: Dr.Tian Tang	Mechanical Engineering	
	Edmonton, Canada	

Project: Asymmetric Complementary Interface for Enhanced Directional Adhesion.

TEACHING EXPERIENCE

| **Marker** | McGill University | Fall 2019 |
| Instructor: Dr.Jianyu Li | MECH 574 Mechanics of biological materials | |

Duty: Grading assignments and preparing solutions.

| **Teaching Assistant** | University of Alberta | Summer 2019 |
| Instructor: Dr.Tian Tang | ENPH 131 Mechanics | |

Duty: Created questions for the course seminars and developed a Python-Latex based
program to automatically generate different seminar versions based on different combinations
of the questions.

Teaching Assistant	University of Alberta	Winter 2019

Instructor: Dr.Hossein Rouhani   MECE 362 Mechanics of Machines
Duty: Organized, taught seminars, and marked seminar quizzes.

Teaching Assistant	University of Alberta	Summer 2018

Instructor: Dr.Chongqing Ru   MECE 250 Engineering Mechanics II
Duty: Organized, taught seminars and marked seminar quizzes.

Teaching Assistant	University of Alberta	Winter 2018

Instructor: Dr.Chun Il Kim   ENPH 131 Mechanics
Duty: Organized seminars, answered students' questions and marked seminar quizzes.

Teaching Assistant	University of Alberta	Fall 2017

Instructor: Dr.Ben Jar   MECE 362 Mechanics of Machines
Duty: Organized, taught seminars and marked assignments and seminar quizzes.

HONORS AND AWARDS

2020 McGill Graduate Excellence Scholarship
2019 McGill Engineering Doctoral Scholarship (MEDA)
2016 MECE 460 Design Capstone Award, University of Alberta.
2015 First Order Standing in Department of Engineering, University of Alberta.
2014 First Order Standing in Department of Engineering, University of Alberta.
2013 International Student Scholarship (1st renew), University of Alberta.
2012 First Order Standing in Department of Engineering, University of Alberta.
2012 International Student Scholarship, University of Alberta.
2012 University of Alberta Maple Leaf First Year Excellence Scholarship.
2012 University of Alberta Academic Excellence Scholarship.

PUBLICATIONS

1. Congrui Jin*, **Zhen Yang**, Yongfeng Liang, Jianlin Li,Yijing Zheng, Wilhelm Pfleging, Tian Tang*. "Bio-Inspired Interfaces for Easy-to-Recycle Lithium-Ion Batteries", Extreme Mechanics Letters (2019) 100594.

2. **Zhen Yang**, Congrui Jin, Tian Tang*. "Asymmetric Complementary Interface for Directional Adhesion", International Journal of Solids and Structures. Accepted.

3. Zhenwei Ma, **Zhen Yang**, Guangyu Bao, Amin Valiei, Fan Yang, Ran Huo, Dongling Ma, Jianyu Li, TBD, 2020.

CONFERENCES

1. **Zhen Yang**, Tian Tang, Directional Adhesion Enabled by Asymmetric Complementary Interface. 27th Canadian Congress of Applied Mechanics, 2019.

2. **Zhen Yang**, Poster Presentation at Faculty of Engineering Graduate Research Symposium, 2018, University of Alberta.

AOMPUTER SKILLS

CAD Software: Solidworks, AutoCAD
CFD Software: Ansys-CFX
Finite Element Software: ABAQUS, Comsol
Programming: PYTHON, MATLAB, MATHMATICA
Text Editor: Emacs (spacemacs)

EXPERIMENTAL SKILLS
       Tough Hydrogel Synthesis
       Instron Testing Machine
       Laser Cutter