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## Mr. Run Ze Gao

Correspondence language: English

Sex: Male

Date of Birth: 10/17

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

## Contact Information

The primary information is denoted by (\*)

### Address

#### Home

22-31125 Westridge Place  
Abbotsford British Columbia V2T 0B9  
Canada

#### Temporary (\*)

57 Bridgeport Road East  
Unit 39  
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Canada  
2017/09/01 - 2018/08/31

### Telephone

Mobile (\*) 1-226-9293058

### Email

Personal (\*) runze3662@gmail.com  
Work rzgao@edu.uwaterloo.ca

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## Mr. Run Ze Gao

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### Language Skills

Language	Read	Write	Speak	Understand	Peer Review
Chinese	Yes	Yes	Yes	Yes	
English	Yes	Yes	Yes	Yes	
French	Yes	Yes	Yes	Yes	

### Degrees

- 2018/5 (2022/5)      Doctorate, PhD in Mechanical and Mechatronics Engineering, Microfluidics, University of Waterloo  
Degree Status: In Progress
- 2013/9 (2018/6)      Bachelor's, Mechanical Engineering, Fluid Mechanics and Control System, University of Waterloo  
Degree Status: All But Degree

### Recognitions

- 2018/5 - 2019/5      NSERC Alexander Graham Bell Canada Graduate Scholarship - 17,500 (Canadian dollar)  
Natural Sciences and Engineering Research Council of Canada (NSERC)  
Prize / Award  
Canada Graduate Scholarships - Master's Program
- 2018/5 - 2019/5      President's Graduate Scholarship - 10,000 (Canadian dollar)  
University of Waterloo  
Prize / Award
- 2018/5 - 2018/5      GM Innovation Award - 100 (Canadian dollar)  
University of Waterloo  
Prize / Award  
Best Interdisciplinary Fourth Year Engineering Capstone Design Project
- 2018/5 - 2019/5      Waterloo Institute for Nanotechnology Nanofellowship - 10,000 (Canadian dollar)  
University of Waterloo  
Prize / Award
- 2017/9 - 2017/12      NSERC Undergraduate Student Research Award - 4,500 (Canadian dollar)  
Natural Sciences and Engineering Research Council of Canada (NSERC)  
Prize / Award  
Research Disciplines: Mechanical Engineering

2017/1 - 2017/4	Term Dean's Honours List (Canadian dollar) University of Waterloo Distinction  Research Disciplines: Mechanical Engineering
2016/5 - 2016/12	President's International Experience Award - 1,500 (Canadian dollar) University of Waterloo Prize / Award  Research Disciplines: Mechanical Engineering
2016/1 - 2016/4	Term Dean's Honours List (Canadian dollar) University of Waterloo Distinction  Research Disciplines: Mechanical Engineering
2015/5 - 2015/8	Term Dean's Honours List (Canadian dollar) University of Waterloo Distinction  Research Disciplines: Mechanical Engineering
2015/5 - 2015/8	President's Research Award - 1,500 (Canadian dollar) University of Waterloo Prize / Award  Research Disciplines: Mechanical Engineering
2014/9 - 2014/12	Term Dean's Honours List (Canadian dollar) University of Waterloo Distinction  Research Disciplines: Mechanical Engineering
2013/9 - 2013/12	Term Dean's Honours List (Canadian dollar) University of Waterloo Distinction  Research Disciplines: Mechanical Engineering
2013/9	President's Scholarship of Distinction - 2,500 (Canadian dollar) University of Waterloo Prize / Award  Research Disciplines: Mechanical Engineering
2013/6	W.J. Mouat Secondary Top Graduate Scholar Award (Canadian dollar) W.J. Mouat Secondary School Distinction
2012/9	Siemens PLM Design Contest Winner - 500 (Canadian dollar) Siemens Ag (Germany) Prize / Award

## User Profile

Fields of Application: Foundations and Knowledge Acquisition, Industrial Manufacturing and Production

Areas of Research: Fluid Mechanics, Material Design, Control System, Nanomaterials, Polymers

Research Specialization Keywords: Additive Manufacturing, Control System, Fluid Mechanics, Materials, Mechatronics, Microfluidics, Multi-Parameter Testing

Research Disciplines: Mechanical Engineering

## Employment

2017/9 - 2017/12	Research Assistant (Microfluidics) Mechanical and Mechatronics Engineering, Engineering, University of Waterloo
2017/1 - 2017/8	Undergraduate Research Assistant (Microfluidics) Mechanical and Mechatronics Engineering, Engineering, University of Waterloo
2016/5 - 2016/12	Research Assistant (Slippery Liquid-Infused Porous Surfaces) Wyss Institute, School of Engineering and Applied Science, Harvard University
2016/1 - 2016/4	Undergraduate Research Assistant (Structural Materials) Engineering, Mechanical and Mechatronics Engineering, University of Waterloo
2015/9 - 2015/12	Process Development Engineer (Co-op Work Term) Lumentum/JDS Uniphase
2015/5 - 2015/8	Undergraduate Research Assistant (Fire Safety) Engineering, Mechanical and Mechatronics Engineering, University of Waterloo
2015/1 - 2015/4	Elevating Devices Inspector (Co-op Work Term) MMM Group/Toronto Transit Commission
2014/5 - 2014/8	Mechanical CAD Operator (Co-op Work Term) Plan Group

## Affiliations

The primary affiliation is denoted by (\*)

(\*) 2018/5 - 2019/5 Waterloo Institute for Nanotechnology Nanofellowship, University of Waterloo

## Event Participation

Participant, Center for Nanoscale Systems Imaging Seminar Series (Harvard University), Seminar, 2016/6 - 2016/8  
Seminars focused on introducing state-of-the-art imaging systems. The topics discussed are listed below: - Biological and Molecular Techniques for Electron Microscopy - Introduction to Scanning Electron Microscopy - Focused Ion Beam - Atom Probe Tomography - In Situ Transmission Electron Microscopy - Micro Computed Tomography - Why the JEOL ARM is neat. Aberration Corrected Electron Microscopy - Surface Analysis Techniques (XPS, XRF, Auger) - Cryo-SEM vs Cryo-TEM - Why the Artica is cool. Tomography, Single Particle Reconstruction, Etc. - Vibrational Spectroscopy (FTIR and Raman) - Combining Lasers and Scan Probe Techniques

## Community and Volunteer Activities

2013/9 - 2018/4	Class Academic Representative, University of Waterloo - Organize class events - Provide student feedback to professors, lecturers, and teaching assistants - Conduct student and department meeting - Organize formal course evaluations - Nominate outstanding teaching assistants for awards and recognition - Recommend teaching facility and equipment improvements to department and faculty
2018/2 - 2018/2	Science Fair Judge, Kitchener - Waterloo Bilingual School

2011/9 - 2013/8

Film Night Organizer, The Reach - Gallery Museum

Organized free monthly family-friendly educational film nights for general public. Movies include: - Citizen Kane - The Great Gatsby - The Bridge on the River Kwai - The Polar Express - Gone with the Wind - The Wizard of Oz

## Presentations

1. (2018). ExoMuscle. Norman Esch Entrepreneurship Award, Waterloo, Canada  
Main Audience: General Public  
Invited?: Yes, Keynote?: No, Competitive?: Yes
2. (2018). Pneumatic Pressure Control: An Open-Source Droplet Microfluidic System. Canadian Society for Mechanical Engineering, Toronto, Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: No
3. (2017). ExoMuscle. Velocity Funding Final, Waterloo, Canada  
Main Audience: Decision Maker  
Invited?: No, Keynote?: No, Competitive?: Yes  
Funding Sources: Velocity