

# Rundong Zhou

## Curriculum Vitae

### Contact Information

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**Research Interest:** Computational physics, Fluid mechanics, Dynamical system,  
Numerical methods, Physical oceanography

### EDUCATION

<b>Bachelor of Applied Science in Engineering Science</b>	2021
<b>Major in Engineering Physics</b>	Major GPA 3.59
University of Toronto	Toronto, Canada

Candidate for <b>Master of Science</b>	expected 2024
<b>Major in Complex Adaptive Systems</b>	
Chalmers University of Technology	Gothenburg, Sweden

### HONOURS AND AWARDS

<b>Avancez Scholarship</b>	2022
Chalmers University of Technology	
- 75% tuition fee reduction.	

<b>Undergraduate Research Fellowship</b>	2018
Canadian Institute for Theoretical Astrophysics	
- C\$ 2000 per month for four months.	

<b>Dean's Honour List</b>	2015 Fall
University of Toronto	2016 Fall
- Pass with >80% average.	2020 Fall
	2021 Winter

### RESEARCH EXPERIENCE

<b>Undergraduate Thesis</b>	September 2020 - April 2021
Department of Physics, University of Toronto	Toronto, Canada
Supervisor: Prof. Nicolas Grisouard	
- A novel spectral method to solve fluid equations in polar coordinates.	

**Summer Undergraduate Research Program**

May - September 2018

Canadian Institute for Theoretical Astrophysics

Toronto, Canada

Supervisor: Prof. Norm Murray

- Data analysis on Galactic Legacy Infrared Midplane Survey Extraordinaire (GLIMPSE) database.

**Research Assistant**

April 2021 - Present

Department of Physics, University of Toronto

Supervisor: Prof. Nicolas Grisouard

- A novel Fourier-Bessel based spectral method using discrete Hankel transform.

**Research Assistant**

January - April 2022

Department of Mechanical Engineering, University of Ottawa

Supervisor: Prof. Natalie Baddour

- Developing a new type of 2-D discrete Fourier transform in polar coordinates using Dini series.

**PROFESSIONAL EXPERIENCE****Intern Technical Interpreter**

October - December 2019

Baoshan Iron &amp; Steel Co., Ltd., and PMC-Colinet Industries

Shanghai, China

Supervisor: Marcello Mameli

- English and Mandarin. RPP07-3 CNC Pipe Finishing Machine bearing replacement and refurbishment project at Baoshan Iron & Steel Co., Ltd..