

# Chien-Cheng (Jason) Chiu

Toronto, ON

Chien-Cheng Chiu  
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## Education

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<b>Toronto Metropolitan University</b> <i>Ph.D. in Applied Mathematics</i>	Sept 2022 – Present Toronto, ON, Canada
<b>York University</b> <i>Ph. D. in Applied Mathematics</i>	Sept 2021 – Aug 2022 Toronto, ON, Canada
<b>York University</b> <i>M.A. in Mathematics &amp; Statistics (Applied Mathematics Stream)</i>	Sept 2019 – Aug 2021 Toronto, ON, Canada
<b>Toronto Metropolitan University</b> <i>B.Sc. (Honours) in Mathematics and its Applications</i>	Sept 2015 – Aug 2019 Toronto, ON, Canada
<b>York University</b> <i>B.Sc. in Physics &amp; Astronomy (Physics Stream)</i>	Sept 2012 – Aug 2015 Toronto, ON, Canada

## Research Experience

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<b>Master's Thesis</b> <i>Computational Methods for One-Dimensional Scattering in Non-Smooth Media</i>	Jan 2019 – Aug 2021 York University
<ul style="list-style-type: none"><li>• Implemented various numerical algorithms for acoustic imaging of layered media</li><li>• Used an algorithm to mimic real-life data dependent on time in place of physical recordings</li><li>• Compared the image efficacy among 3 algorithms that numerically convert the time-dependent data to spatial-dependent information of geophysical densities of a material</li></ul>	

## Work Experience

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<b>Camp Counsellor</b> <i>Pickering College</i>	Jul 2021 – Aug 2021 Newmarket, ON
<ul style="list-style-type: none"><li>• Assisted certified ESL teachers in providing a fun learning environment for international elementary and secondary school students in their classes</li><li>• Supervised international students living in their dorms at an independent boarding school to ensure their safety and health in a foreign country</li></ul>	
<b>Teaching Assistant &amp; Tutor</b> <i>Toronto Metropolitan University &amp; York University</i>	Sept 2019 – Present
<ul style="list-style-type: none"><li>• Facilitate tutorials centered on discussion and activity-based learning to engage on average 30 undergraduates with the curriculum in a classroom setting</li><li>• Grade papers in multiple undergraduate math courses and provide constructive feedback for students to improve their understanding in mathematics</li><li>• Provide private tutoring for undergraduates in mathematics through the institution's tutoring services to strengthen their abilities to solve difficult problems</li></ul>	
<b>Tutor</b> <i>Tutor Doctor &amp; Tutor for Less</i>	Sept 2012 – Aug 2019
<ul style="list-style-type: none"><li>• Provided one-on-one tutoring for mathematics and science to students aged 11 to 17 from a variety of backgrounds and diverse learning needs</li></ul>	

## *Volunteer Experience*

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**Tutor** Sept 2019 – Aug 2022

*Frontiers College Newcomers Homework Club*

- Provided free tutoring to students whose family recently moved to Canada from developing countries
- Communicated with newly-immigrated families to help them navigate their new life in Canada

**Tutor** Sept 2009 – Aug 2012

*Boys and Girls Club of London Foundation*

*London, ON*

- Provided homework support and educational and recreational activities for children and youth after school while their parents work to earn a good living for their families

**Caregiver** Sept 2006 – August 2009

*Holland Bloorview Kids Rehabilitation Hospital*

- Helped children with disabilities participate in activities to the best of their ability

## *Awards & Honors*

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**York Graduate Scholarship (\$5000)**

*York University*

*2019 – 2022*

**YU Graduate Fellowship – Domestic (\$10000)**

*York University*

*2019 - 2022*

**Paul and Anna Maria Bonato Scholarship (\$1000)**

*Toronto Metropolitan University*

*2018*

## *Specialized Skills*

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**Certificates:** Worker Health and Safety Awareness in 4 Steps (Ministry of Labour, 2019); Certified Java Associate (OnlineExpert v6, 2018); Teaching English as a Foreign Language (University of Toronto, 2015)

**Programming Languages:** Python, Java, Fortran, MySQL, SQL (beginner); R, Mathematica (intermediate); MATLAB (advanced)

**Operating Systems:** Microsoft Windows; MacOS; ChromeOS

**Software Knowledge:** Microsoft Word; Microsoft PowerPoint; Microsoft Excel; Pages; Numbers; LaTeX; OverLeaf; Adobe Acrobat Reader

**Social Platform:** Discord; Zoom; Google Meet; Slack

## *Other Skills*

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**Goal-oriented:** prefer to complete new tasks as efficiently as possible regardless of difficulty

**Teamwork/Leadership:** love to collaborate with and help colleagues to achieve the best results on projects

**Passionate:** feel enthusiastic in teaching mathematics and physics to make students less stressful and do better in classes

**Classroom management:** like to develop tutorial lesson plans in alignment with course content

**Time management:** opt to organize a schedule between work and extracurricular activities to relieve stress and reach my goals

## *Other Interests*

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**Athletics:** tennis, volleyball, badminton, table tennis

**Arts:** origami

**Puzzles:** sudoku

**Technology:** Apple products, gadgets