

Ziye Ma

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Education

University of California, Berkeley

Berkeley, CA, United States

PH.D IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Sep.2019 - PRESENT

University of Toronto

Toronto, ON, Canada

B.A.SC IN ENGINEERING SCIENCE

Sep.2014 - PRESENT

- cGPA:3.87, Major GPA:3.95
- Highest Ranking within Program: 3/288

Publication

Certiably Globally Optimal Extrinsic Calibration from Per-Sensor Egomotion

IEEE Robotics and Automation

Letters

MATTHEW GIAMOU, ZIYE MA, VALENTIN PERETROUKHIN, JONATHAN KELLY

2018

- Accepted. To Appear.

Experience

STARS Lab, University of Toronto

Toronto, ON

UNDERGRADUATE RESEARCHER

May.2018 - Ongoing

- Supervised by Assistant Professor Jonathan Kelly
- Research on the front of convex optimization theory, calibration, and point cloud registration.
- Summer research scholarship received from NSERC (Natural Sciences and Engineering Research Council of Canada)

Advanced Micro Devices, Inc

Markham, ON

SOFTWARE ENGINEER, PEY (PROFESSIONAL EXPERIENCE YEAR)

May.2017 - May.2018

- PEY in the Apple Multimedia Team.
- Developed MacOS application for internal use with C++ and Obj-C
- Dealt with video decoding/encoding and video processing.
- Python scripting for data analysis.

Division of Engineering Science, University of Toronto

Toronto, ON

SUMMER RESEARCHER UNDER PROF. WILLIAM. R. CLUETT.

May.2015 - Sep.2015

- Advised by Professor William. R. Cluett
- Designed new ways to visualize n-dimensional vectors using MATLAB.
- Experienced with MATLAB GUI design.
- Developed Python program for educational purposes.
- Completed independent project.

Extracurricular Activity

Markham MSHF Music Inspired Concert

Markham, ON

FOUNDER

Aug. 2011 - Nov.2013

- Co-founder and chief organizer of this charity concert.
- Raised over \$2000 fund for Markham Stouffville Hospital per year in year 2011-2013
- Annual event

Various translating groups

Online

ONLINE TRANSLATOR

Jul. 2009 - PRESENT

- Performed various translating tasks. Mainly Japanese to Chinese and English to Chinese.
- TED talks.
- Online games.
- Japanese Animes.

Awards & Certificates

HONORS & AWARDS

2018	First Place , Daisy Intelligence Hackathon	Toronto, ON
2016	Sullivan Memorial Scholarship , University of Toronto	Toronto, ON
2015	Dhillon Satinder Kaur Memorial Scholarship , University of Toronto	Toronto, ON
2014	Richardson R. John Memorial Scholarship , University of Toronto	Toronto, ON
2014-now	Dean's Honour List(every term) , University of Toronto	Toronto, ON
2014	UofT Scholar (Academic Ledger #1) , University of Toronto	Toronto, ON
2011	Gold Medalist , Canadian Intermediate Mathematics Contest	National
2014	Top 50 , Sir Isaac Newton Contest	National

CERTIFICATES

2011	Level Eight Certificate in Piano , Royal Conservatory of Music	Markham, ON
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Skills

Programming Languages	C/C++, MATLAB, Python, Java, Swift, Verilog, Assembly, JavaScript, HTML5, LaTeX
Algorithm Skills	Non-linear optimization, SLAM, video encoding/decoding algorithms
Languages	Fluent in English, Chinese, Japanese