

Junfeng Li

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Education

McMaster University

Master of Applied Science

Hamilton, Canada

2012 – present

- Supervisor: Dr. Wei-Ping Huang, Dr. Xun Li (co-advisor)
- Major: Electrical and Computer Engineering
- Grade: GPA 11.25/12

University of Science and Technology of China (USTC)

Bachelor of Science

Hefei, China

2008 – 2012

- Supervisor: Prof. Hai Ming
- Major: Optics and Optical Engineering, School of Physics
- Grade: GPA 3.62/4.30, Rank 7/33
- Outstanding Student Scholarship (2011, 2010, 2009, 2008)
- Champion of Robogame Contest (2010)

Experience

Vocational

McMaster Photonics Research Group

Research Assistant & Teaching Assistant

2012.9 – present

- Various optical waveguides mode solvers.
- CUDA-accelerated finite-difference time-domain (FDTD) method.
- Photonic devices modeling using mode-matching method and coupled-mode theory
- TA for Electronics and Instrumentation, Electrical Circuits and Power.

USTC Institute of Photonics

Research Assistant

2011.3 – 2012.6

- Implementation of Augmented Reality (AR) on three-dimensional display devices.
- Extraction of spacial information from pictures of dual cameras.

Miscellaneous

PyPlot.jl: A graphics solution for Julia programming language.

2012.11 – 2013.8

Magician: A fully automatic Rubik's Cube solver.

2010.6 – 2010.10

Languages

English: Intermediate

Chinese: Native

Technical Skills

OS: Linux/Unix, Mac OS X, Windows

Typography: \LaTeX , Microsoft Office

Scientific Programming: MATLAB, Scipy/Numpy/matplotlib, Julia

General Programming: C/C++, CUDA, Shell, HTML, Python, Java, Fortran