

# Mohan Li

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## Education

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**University of Illinois at Urbana-Champaign** May 2020

*Ph.D. Candidate, Radiological Engineering, GPA: 3.7/4.0*

**University of Illinois at Urbana-Champaign** July 2018

*Master of Science, Radiological Engineering, GPA: 3.7/4.0*

### Related Courses

Distributed Systems    Computer Vision    Parallel Programming  
Random Processes    Statistical Learning    Applied Regression and Design

**Tsinghua University** July 2015

*Bachelor of Engineering, Engineering Physics, GPA: 89.4/100.0*

## Skills

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- Programming: Proficient in **C++** (CUDA), Python (scikit-learn, TensorFlow), C#, SQL, Linux, HTML/CSS

## Work & Project Experience

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**Software Development Internship, Canon Medical Research USA, Inc.** Chicago, IL

**Augmented reality (AR) based CT demo** Summer 2019

- Investigated **Unity** API samples of Magic Leap One for controlling mixed reality virtual objects
- Applied clinical CT image segmentation for personalized patient model and AR-assisted surgery
- Developed an AR demo in **C#** for simplifying CT scan protocol and 3D-visible CT marketing

**University of Illinois at Urbana-Champaign** Urbana-Champaign, IL

**Organ-dedicated PET system** Feb 2017 - Present

- Evaluated system performances through Monte Carlo simulation for optimized system design
- Designed a high-resolution and depth-of-interaction capable detector for building the PET system

**Melbourne housing market (Statistical Learning course project)** Spring 2018

- Applied data cleaning, feature selection and normalization for data preprocessing
- Predicted housing price in **Python** by training statistical regression models

**Distributed transactions (Distributed Systems course project)** Spring 2019

- Developed a distributed transaction systems based on remote method invoke (RMI) by Pyro4
- Implemented a active read and write deadlock detection strategy

**Intern, Deutsches Elektronen Synchrotron DESY** Hamburg, Germany

**EUTelescope data analysis platform** Summer 2014

- Estimated particle hit error in pixel telescopes for improving particle tracking accuracy
- Implemented new features in **C++** to the EUTelescope data analysis platform in **Linux**

## Honors and Awards

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**University of Illinois Urbana-Champaign**  
• Cancer Scholars for Translational and Applied Research Graduate Fellowship 2018-2020

**Deutsches Elektronen Synchrotron DESY**  
• Best summer student in DESY ATLAS group (1/15) 2014

## Selected Publications (2 of 9, total citation: 104)

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- **Li, M.**, & Abbaszadeh, S. (2019). "Depth-of-interaction study of a dual-readout detector based on TOF-PET2 application-specific integrated circuit." *Physics in Medicine & Biology*.
- **Li, M.**, Guo, Z., Yeh, M., Wang, Z., & Chen, S. (2016). "Separation of scintillation and Cherenkov lights in linear alkyl benzene." *Nucl. Instr. Meth. A*, 830, 303-308.