

Mohan Li

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Education

University of Illinois	Urbana-Champaign, IL
<i>Ph.D. student, Nuclear, Plasma and Radiological Engineering, May 2020 (expected)</i>	
University of Illinois	Urbana-Champaign, IL
<i>MS, Nuclear, Plasma and Radiological Engineering, July 2018</i>	
Tsinghua University	Beijing, China
<i>BE, Engineering Physics, July 2015</i>	

Experience

Research assistant, University of Illinois at Urbana-Champaign	Urbana, IL
Development of a head-and-neck cancer dedicated PET system	
<ul style="list-style-type: none">Investigated system performance through Monte Carlo simulation in GATEDeveloping a high-resolution DOI detector module based on SiPM and segmented LYSO	
Influence of channel configuration on bandwidth of CZT detector with a cross-strip pattern	
<ul style="list-style-type: none">Investigated bandwidth of a cross-strip CZT detector with different readout electrode pattern	
Undergraduate researcher, Tsinghua University	Beijing, China
Separation of scintillation and Cherenkov lights in linear alkyl benzene (LAB)	
<ul style="list-style-type: none">Implemented trigger logic on a Flash ADC (CAEN VX1751) by FPGA programmingBuilt the DAQ system based on Maximum Integrated Data Acquisition SystemDesigned a waveform-analysis algorithm and measured LAB time constants and light yield	
Assay of low-background stainless steel by smelting for the neutrino experiment at Jinping	
<ul style="list-style-type: none">Measured the radioactivity of raw materials of stainless steel with a high-purity germanium detectorDesigned an auto-search algorithm and identified the radionuclide type and activity	
Summer undergraduate researcher, DESY	Hamburg, Germany
Adding particle hit errors to EUDET-type beam telescopes	
<ul style="list-style-type: none">Implemented particle hit error into the pixel telescope data analysis framework EU Telescope	

Honors and Awards

University of Illinois at Urbana-Champaign	
<ul style="list-style-type: none">Cancer Scholars for Translational and Applied Research Graduate FellowshipGraduate College Conference Travel Award	2018 2017
Tsinghua University	
<ul style="list-style-type: none">National Training Programs of Innovation and Entrepreneurship AwardAcademic Excellence Scholarship	2015 2012, 2013, 2014
Deutsches Elektronen Synchrotron (DESY)	
<ul style="list-style-type: none">Best summer student in DESY ATLAS group (1/15)	2014

Skills

- Programming: C++, Python, Bash, CUDA, Solidworks, Matlab, HTML/CSS
- Hardware: PMT, SiPM, CZT, scintillator, Flash ADC, CMOS camera, HPGe detector

Selected Publications (2 of 5, total citation 53)

- 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.
- Li, M.,** and Abbaszadeh, S. "Influence of channel configuration on bandwidth of cadmium zinc telluride detector with a cross-strip pattern." *Radiat. Phys. Chem.*