



Luzhe Huang

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Education

CHU KOCHEN Honors College, Zhejiang University, Hangzhou, China

Sep 2015 - Present

- **Major:** Opto-Electronics Information Science and Engineering; **Minor:** Statistics

Main Course:

Electromagnetic Waves and Fields; Physical Optics; Optoelectronics; Applied Optics; Fiber Optics; Advanced Optical Manufacturing; Opto-electric Detection Technology and System; Electric Circuit and Analog Electronic Technology; Digital

- Circuit Analysis and Design

Probability Theory; Mathematical Statistics; Multi-variate Statistic Analysis; Time Series Analysis; Regression Analysis; Stochastic Processes; Real Variable Function; Complex Variable Function; Ordinary Differential Equations; Partial Differential Equations; Computational Methods; Advanced Algebra; Mathematical Analysis

- GPA : 3.96/4.0 (91.87/100)
- Rank : 1% (three year)

Awards

I have won National Scholarship for two consecutive years. I was granted Zhejiang University Special Scholarship in 2018, which is the supreme award for undergraduates in Zhejiang University. Our team won MATLAB Innovation Prize in 2017, and it is the top prize in CUMCM.

• National Scholarship	Oct 2016
• The First Prize Scholarship	Oct 2016
• The First Prize of National Mathematic Contest	Oct 2016
• The First Prize of Physics Innovation Contest in Zhejiang Province	Dec 2016
• MATLAB Innovation Prize (Special Prize) in CUMCM (China Undergraduate Mathematical Contest in Modeling)	Sep 2017
• National Scholarship	Oct 2017
• CHU KOCHEN College Innovation Scholarship	Nov 2017
• Zhejiang University Special Scholarship (Supreme award for undergraduates)	Oct 2018
• Lixin Tang Scholarship	Oct 2018
• CHU KOCHEN College Innovation Scholarship	Nov 2018

Research

I have joined 5 research projects as a main contributor, and contributed to more projects, which are not listed here.

Interests: Computational Imaging, Biomedical Imaging, Machine Learning

Calibration and Imaging of CT Systems	Sep 2017 - Dec 2017
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- **L. Huang**, T. Fang, Q. Shuai, Calibration and Imaging of a CT System, Chinese Journal of Engineering Mathematics. Vol. 34, Supp. 1, 2017.

Non-line-of-sight (NLOS) imaging with improved methods	May 2017 - Now
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- Mentor: Prof. Yonghang Shen, director of Institute of Optoelectronic Technology, Zhejiang University
- **L. Huang**, X. Wang, Y. Yuan, Y. Shen, An improved algorithm of NLOS imaging based on Bayesian statistics. *JOSA.A* 36(5), 834-838, 2019.

Generation and application of adaptive Bessel beam	July 2018 - Aug 2018
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- Mentor: Prof. Jixin Cheng, Moustakas Professor in Photonics and Optoelectronics, Boston University

SNR adaptive OCT angiography	June 2018 - Now
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- Mentor: Prof. Zhihua Ding & Prof. Peng Li, Zhejiang University
- **L. Huang**, Y. Fu, R. Chen, S. Yang, P. Li, SNR-adaptive OCT angiography enabled by statistical characterization of intensity and decorrelation based on multi-variate time series model. *IEEE Trans. Med. Imaging* DOI: 10.1109/TMI.2019.2910871

General Test and English Proficiency

- TOEFL iBT : 112 (S25)
- GRE: V153+Q170+AW3.5

Experience

PAPIC of Zhejiang University	Sep 2015 - Jun 2016
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Public Relation Department

Zhejiang University	Oct 2016 - Jan 2017
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After-school tutor of calculus, awarded as Excellent Tutor

Hong Kong University of Science and Technology	Jul 2017 - Jul 2017
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SENG Summer Camp for Elite Students

Boston University	Jul 2018 - Aug 2018
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Summer Research Intern