Hongli Ni

College of Optical Science and Engineering

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EDUCATION

Bachelor of Engineering 09/2015-06/2019

Opto-Electronics Information Science and Engineering, Zhejiang University

Hangzhou, China

4-year GPA:87.9/100, Rank: 12/113

RESEARCH

Visiting Undergraduate Researcher 07/2018-09/2018

Electrical and Computer Engineering/Photonics Center, Boston University

Boston, MA

Advisor: Professor Ji-Xin Cheng; Co-advisor: Thomas Bifano

Project: Volumetric Stimulated Raman Imaging with a High-speed Deformable Mirror

- · Designed and built a volumetric SRS imaging microscopy
- · Designed 3D scanning LabVIEW software
- · Calculated and measured system characteristics
- · Applied sparse sampling algorithm to improve imaging speed

Undergraduate Researcher 06/2018-07/2018

College of Optical Science and Engineering, Zhejiang University

Hangzhou, China

Advisor: Professor Peng Li

Project: Optical Coherence Tomography Angiography-based Capillary Velocimetry

- · Did Eigen-decomposition analysis of complex OCT signals
- · Distinguished particles in Brownian motion by auto-correlating complex OCT signals

Undergraduate Researcher 05/2017-04/2018

College of Optical Science and Engineering, Zhejiang University

Hangzhou, China

Advisor: Professor Kaiwei Wang

Project: Visual Aids Technology for the Blind based on Deep Learning

- · Built a classification network with 77.7% accuracy in 80 classes based on MobileNet
- · Transferred classification network to an android microphone
- · Built customizable classification network with 65.87% accuracy in 10 classes based on MatchingNet
- · Code is in the github repository https://github.com/welkincici/MatchingNet

AWARDS

· 1st Prize, Optical Design Competition (3/131), East Division of China 2017-2018

· 2nd Prize, Scholarship for Outstanding Students (13/113), Zhejiang University

2017-2018

· 3rd Prize, Zhongkong Cup Robot Competition, Zhejiang University

2016-2017

PUBLICATION

Peng Lin*, **Hongli Ni***, Huate Li, Fengyuan Deng, Haonan Lin, Nicholas A. Vickers, Thomas Bifano, Ji-Xin Cheng. "Volumetric stimulated Raman imaging with a high-speed deformable mirror" (Abstract has been submitted to SPIE)

TECHNICAL STRENGTHS

Programming and software: C, Python, Matlab, Tensorflow, LabVIEW, ZEMAX, ASAP, Solidworks, Origin

Skills: Optical Alignment, SRS Microscopy

SERVICE