

Zeng Peng

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EDUCATION

- M.Sc.** in Optical Engineering Supervisor: *Liyang Shao* Sep. 2018 - Present
Harbin Institute of Technology, China &
Southern University of Science and Technology, China
- B.S.** in Opto-electric Information Science and Engineering Sep. 2014 - Jun. 2018
Changchun University of Science and Technology, China

JOURNAL PUBLICATIONS

1. Xingliang Shen, Guoqiang Gu, Liyang Shao, **Zeng Peng** et al. "Photonic hook generated by twin-ellipse microcylinder." *IEEE Photonics Journal*. (2020).
2. Guoqiang Gu, Liyang Shao, Jun Song, Junle Qu, Kai Zheng, Xingliang Shen, **Zeng Peng** et al. "Photonic hooks from Janus microcylinders." *Optics Express* 27, no. 26 (2019): 37771-37780.
3. Guoqiang Gu, Xingliang Shen, **Zeng Peng** et al. "Numerical investigation of photonic nanojets generated from D-shaped dielectric microfibers." In *Advanced Optical Imaging Technologies II*, vol. 11186, p. 111861H. International Society for Optics and Photonics, 2019.

RESEARCH EXPERIENCE

- Photonic Nanojets & Photonic Hooks** 2019
Keywords: COMSOL FEM simulations
- Surface enhanced Raman Scattering** 2019
Keywords: Spin coating, E-beam evaporating, COMSOL FEM simulations

PROJECT EXPERIENCE

- Distance Measurement System based on Binocular Vision** 2017
Keywords: OpenCV
- Research on Key Technology of Unmanned Vehicle based on Lidar** 2016
Keywords: MRPT, ICP, Socket, Lidar, RaspberryPi, MFC
- Gesture Controlled Screen based on Single-line Lidar** 2016
Keywords: MRPT, Lidar, OpenCV
- Airdrop Rescue Unmanned vehicle based on Opto-electric Target recognition** 2016
Keywords: OpenCV, RaspberryPi, APM, MFC
- Indoor 3D Reconstruction based on Depth Camera and Quadrotor UAV** 2016
Keywords: Kinect, PCL, Socket, TCP, OpenCV
- Camera Pose Detection Tool for Compound Eye Project** 2015
Keywords: OpenCV, MFC
- Opto-electric Intelligent Ping-pong ball Collecting car** 2015
Keywords: OpenCV, MFC, Arduino

HONORS & AWARDS

- ✧ **Third Prize** in Jilin Province "Challenge Cup" Competition of College Students Extracurricular Science and Technology, 2017
- ✧ **Grand Prize** in Innovative Practice Training Program, Chinese Academy of Sciences, 2016
- ✧ **Third Prize** in National Competition of Opto-electric Design, 2016
- ✧ **Second Place** in School Competition of Opto-electric Design, 2015

SKILLS

Language: IELTS [6.0] CET6 [521]

Programming & Software: C, C++, MATLAB, Python, OpenCV, PCL, Arduino, Linux, COMSOL, LabVIEW