

# Zeng Peng

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Google Scholar: <https://scholar.google.com/citations?user=BsABDKkAAAAJ>

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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

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## 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.

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## 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

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## 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

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## HONORS & AWARDS

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

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## SKILLS

**Language:** IELTS [6.0]    CET6 [521]

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