Resume

Pengming Song

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Contact Information

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Research Interests

Computational imaging, Phase retrieval, Fourier pthychography

Education

Tsinghua University, Beijing, China — Sep 2015 – Jul 2018

M.E., Department of Automation

- Major in Control Engineering
- Advisor: *Prof.* Yongbing Zhang

Tianjin University of Science & Technology, Tianjin, China — Sep 2010 – Jul 2014

B.S., College of Electronic Information and Automation

- Major in Automation
- Cumulative GPA: 3.62/4.0 Junior/Senior GPA 3.73/4.0

Research Experience

Research Assistant — Mar 2015 – Jul 2018
Department of Automation, Tsinghua University, China
Supervisor: *Prof.* Yongbing Zhang

Journal Publications

(* means corresponding author and *Prof.* Yongbing Zhang is my master supervisor.)

1. Yongbing Zhang, **Pengming Song***, Jian Zhang, and Qionghai Dai, "Fourier ptychographic microscopy with sparse representation," *NPG Scientific Reports* (**SR**), 7:8664, Aug. 2017.
2. Yongbing Zhang, **Pengming Song***, and Qionghai Dai, "Fourier ptychographic microscopy using a generalized Anscombe transform approximation of the mixed Poisson-Gaussian likelihood," *OSA Optics Express* (**OE**), vol. 25, no. 1, Jan. 2017.
3. Yongbing Zhang, Ze Cui, Jian Zhang, **Pengming Song**, and Qionghai Dai, "Group-based Sparse Representation for Fourier Ptychography Microscopy," *Optics Communications* (**OC**), May. 2017.

Conference Publications

1. **Pengming Song**, Weixin Jiang, Yongbing Zhang, and Qionghai Dai, "Fourier ptychographic reconstruction using weighted replacement in the fourier domain," *IEEE International Conference on Image Processing* (**ICIP**), 2016.

Honors and Awards

- National Scholarship (Ministry of Education, China, Top 2%), 2017
- Excellent Student Scholarship of Comprehensive Quality, Tsinghua University, 2016
- Excellent Graduates in College of Electronic Information and Automation, Tianjin University of Science & Technology, 2014
- RoboCup open tournament (Medical and service projects) in the first place, Chinese Association of Automation, 2013
- Merit Student, Tianjin University of Science & Technology, 2013
- National Encouragement scholarship, Tianjin University of Science & Technology, 2012,2013
- Excellent Student Cadre, Tianjin University of Science & Technology, 2012
- Model Student of Academic Records, Tianjin University of Science & Technology, 2011