

# Tao Dai

Tsinghua University

dait14@mails.tsinghua.edu.cn

<http://itml.sz.tsinghua.edu.cn/members/TaoDai/TaoDai.html>

---

## Education:

- PhD. candidate      Tsinghua University, Computer Science and Technology,  
Beijing, China,      2014.9 - present
  - Bachelor Degree      Xidian University, Intelligence Science and Technology,  
Xi'an, China      2010.9 - 2014.6
- Total GPA: 90.5/100    Rank: 1/146

## Research Interest:

- Image Restoration: Denoising, Deblurring, Super-resolution
- Image Quality Assessment
- Computer Vision
- Compressive sensing, Sparse Representation
- Deep Learning

## Scholarships and Honors:

- School Class Scholarship, Xidian University      2011
- National Scholarship, Xidian University      2012
- School Class Scholarship      2013
- Outstanding Graduate, Xidian University      2014
- Best Student Paper Award in School      2014
- Foxconn's scholarship      2015

## Journal papers

1. **Dai T**, Lu W, Wang W, et al. "Entropy-based bilateral filtering with a new range kernel" [J]. Signal Processing, 2017, 137: 223-234.

## Conference papers

1. **Tao Dai**, et al. “PMPA: A patch-based multiscale products algorithm for image denoising.” Image Processing (ICIP), 2015 IEEE International Conference on. IEEE, 2015.
2. Weizhi,Lu, **Tao Dai**, Shu-Tao Xia, “Compressed Sensing Performance of Binary Matrices with Binary Column Correlations” Data Compression Conference (DCC), 2017.
3. Ji-Ping Zhang, **Tao Dai**, and Shu-Tao Xia. “Single-Frame Super-Resolution via Compressive Sampling on Hybrid Reconstructions.”International Conference on Neural Information Processing. Springer International Publishing, 2015.
4. Xin-Ji Liu, Shu-Tao Xia, and **Tao Dai**. “Deterministic constructions of binary measurement matrices with various sizes.” Acoustics, Speech and Signal Processing (ICASSP), 2015 IEEE International Conference on. IEEE, 2015.

## Computer Skills:

- C++, Python, Matlab

## English Level:

- CET-6: 539