

LIANGZU PENG

www.liangzu.org

EDUCATION

ShanghaiTech Univerisity, Shanghai, China

M.S. in Computer Science (advisor: Manolis C. Tsakiris)

Sep. 2017 - Now

Zhejiang University, Hangzhou, China

B.Eng. in Measurement Control Technology and Instruments

Sep. 2013 - Jun. 2017

PUBLICATION

arXiv.

1. **L. Peng**, B. Wang, M. C. Tsakiris, "Homomorphic sensing of subspace arrangements", arXiv:2006.05158 [cs.LG], 2020.
2. **L. Peng**, M. C. Tsakiris, "Linear regression without correspondences via concave minimization", arXiv:2003.07706 [cs.IT], 2020.

Journal Papers.

1. M. C. Tsakiris, **L. Peng**, A. Conca, L. Kneip, Y. Shi, and H. Choi, "An algebraic-geometric approach to linear regression without correspondences", IEEE Transactions on Information Theory (to appear), 2020.

Conference Papers.

1. M. C. Tsakiris and **L. Peng**, "Homomorphic sensing", International Conference on Machine Learning (ICML), 2019.
2. **L. Peng**, X. Song, M. C. Tsakiris, H. Choi, L. Kneip, and Y. Shi, "Algebraically-initialized expectation maximization for header-free communication", International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2019.

WORK EXPERIENCE

Intern - New York University, Shanghai

Discrete Mathematics — grade assignments and lead the recitation sessions

Algorithms — write solutions and grade assignments

Feb. 2020 - Now

PROFESSIONAL SERVICE

Reviewed several papers submitted to:

International Conference on Machine Learning

Neural Information Processing Systems

IEEE Transactions on Signal Processing (invited)

TEACHING

As Teaching Assistant:

CSCI-SHU 2314, Discrete Mathematics

CSCI-SHU 220, Algorithms

MATH 2111, Topological Data Analysis

SI 232, Subspace Learning

CS 133, Advanced C++ Programming

SI 192, Applied Algebraic Geometry

SI 112, Advanced Geometry¹

Spring 2020, NYU-Shanghai

Spring 2020, NYU-Shanghai

Spring 2020, ShanghaiTech

Fall 2019, ShanghaiTech

Spring 2019, ShanghaiTech

Spring 2019, ShanghaiTech

Spring 2018, ShanghaiTech

¹lecture notes available: <http://www.liangzu.org/en/ag-notes.html>

KNOWLEDGE

Computing:

Compiler, Operating System, Visual SLAM, Deep Learning, Algorithms, Computer Vision

(Applied) Mathematics:

Optimization, Matrix Analysis, Topological Data Analysis, Real Analysis, Point Set Topology, Algebraic Geometry,

SKILLS

C, C++, Python, Java, Matlab, Shell, PyTorch, \LaTeX .