penglz@shanghaitech.edu.cn May. 16th, 2020

LIANGZU PENG

www.liangzu.org

EDUCATION

ShanghaiTech Univerisity, Shanghai, China — Sep. 2017 - Now
M.S. in Computer Science (advisor: Manolis C. Tsakiris)

Zhejiang University, Hangzhou, China — Sep. 2013 - Jun. 2017
B.Eng. in Measurement Control Technology and Instruments

PUBLICATION

arXiv.

1. **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 — Feb. 2020 - Now
Discrete Mathematics — grade assginments and lead the recitation sessions
Algorithms — write solutions and grade assginments

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	Spring 2020, NYU-Shanghai
CSCI-SHU 220, Algorithms	Spring 2020, NYU-Shanghai
MATH 2111, Topological Data Analysis	Spring 2020, ShanghaiTech
SI 232, Subspace Learning	Fall 2019, ShanghaiTech
CS 133, Advanced C++ Programming	Spring 2019, ShanghaiTech
SI 192, Applied Algebraic Geometry	Spring 2019, ShanghaiTech
SI 112, Advanced Geometry[1]	Spring 2018, ShanghaiTech

KNOWLEDGE

Computing:

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

[1] lecture notes available: http://www.liangzu.org/en/ag-notes.html

(Applied) Mathematics:
Optimization, Matrix Analysis, Topological Data Analysis, Real Analysis, Point Set Topology, Algebraic Geometry,.

SKILLS

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