

LIANGZU PENG

www.liangzu.org

EDUCATION

ShanghaiTech Univerisity, Shanghai, China Sep. 2017 - Jun. 2021 (expected)
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

Submitted.

1. **L. Peng**, B. Wang, and M. C. Tsakiris, "Homomorphic sensing: sparsity and noise", 2021.
2. Y. Yao, **L. Peng**, and M. C. Tsakiris, "Unlabeled principal component analysis", *arXiv:2101.09446v1 [cs.LG]*, 2021.
3. **L. Peng** and M. C. Tsakiris, "Homomorphic sensing of subspace arrangements", *arXiv:2006.05158v2 [cs.LG]*, 2020.

Journal Papers.

1. **L. Peng** and M. C. Tsakiris, "Linear regression without correspondences via concave minimization", in *IEEE Signal Processing Letters*, vol. 27, pp. 1580-1584, 2020.
2. M. C. Tsakiris, **L. Peng**, A. Conca, L. Kneip, Y. Shi, and H. Choi, "An algebraic-geometric approach to linear regression without correspondences", in *IEEE Transactions on Information Theory*, vol. 66, no. 8, pp. 5130-5144, 2020.

Conference Papers.

1. Y. Yao, **L. Peng**, and M. C. Tsakiris, "Unsigned matrix completion", *IEEE International Symposium on Information Theory (ISIT)*, 2021.
2. M. C. Tsakiris and **L. Peng**, "Homomorphic sensing", *International Conference on Machine Learning (ICML)*, 2019.
3. **L. Peng**, X. Song, M. C. Tsakiris, H. Choi, L. Kneip, and Y. Shi, "Algebraically-initialized expectation maximization for header-free communication", *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2019.

WORK EXPERIENCE

Teaching Associate - New York University, Shanghai Sep. 2020 - Now
Algorithms — lead the recitation sessions, design homework, grade assignments

Intern - New York University, Shanghai Feb. 2020 - Jun. 2020
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 (reviewer 2021)
Neural Information Processing Systems (reviewer 2021)
International Symposium on Information Theory
International Conference on Acoustics, Speech, and Signal Processing
IEEE Transactions on Image Processing
IEEE Transactions on Signal Processing (invited)

TEACHING

As Recitation Instructor:

CSCI-SHU 220, Algorithms	Spring 2021, NYU-Shanghai
CSCI-SHU 220, Algorithms	Fall 2020, NYU-Shanghai
CSCI-SHU 2314, Discrete Mathematics	Spring 2020, NYU-Shanghai

As Teaching Assistant:

SI 232, Subspace Learning

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

Fall 2020, ShanghaiTech

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>