lpeng25@jhu.edu July 13th, 2021

LIANGZU PENG

www.liangzu.org

EDUCATION

Johns Hopkins Univerisity, Baltimore, USA — Sep. 2021 - Now
Ph.D. in Electrical and Computer Engineering (advisor: Professor René Vidal)

Thesis: TBD

ShanghaiTech Univerisity, Shanghai, China — Sep. 2017 - Jun. 2021
M.S. in Computer Science (advisor: Professor Manolis C. Tsakiris)

Thesis: From Linear Regression Without Correspondences to Homomorphic Sensing

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

Thesis: Image Measurement Software for Visual Detection

PUBLICATION

Submitted.

1. Y. Yao, **L. Peng**, and M. C. Tsakiris, "Unlabeled principal component analysis", *arXiv:2101.09446v1 [cs.LG]*, 2021.
2. **L. Peng** and M. C. Tsakiris, "Homomorphic sensing of subspace arrangements", *arXiv:2006.05158v3 [cs.LG]*, 2021.

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. **L. Peng**, B. Wang, and M. C. Tsakiris, "Homomorphic sensing: sparsity and noise", *International Conference on Machine Learning* (ICML), 2021.
2. Y. Yao, **L. Peng**, and M. C. Tsakiris, "Unsigned matrix completion", *IEEE International Symposium on Information Theory* (ISIT), 2021.
3. M. C. Tsakiris and **L. Peng**, "Homomorphic sensing", *International Conference on Machine Learning* (ICML), 2019.
4. **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 - May 2021
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

Reviewer:

International Conference on Learning Representations (2022)

Neural Information Processing Systems (2021)

International Conference on Machine Learning (2021)

zbMATH Open (2021 - Now)

TEACHING

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

Teaching Assistant:

SI 232, Subspace Learning	Fall 2020, ShanghaiTech
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

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