Zhen Peng

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EMPLOYMENT

Postdoc   *Nov. 2023 - present*
- Academy of Mathematics and Systems Science, Chinese Academy of Sciences
- Advisor: Prof. *Bin Gao*

EDUCATION

Ph.D. in **Operations Research and Financial Engineering**   *Nov. 2023*
- Beihang University, advised by Professor *Hongyi Li* and Professor *Di Zhao*

B.E. in **Information & Computing Science**   *July 2017*
- Northwest A&F University

RESEARCH INTERESTS

Optimization on low-rank manifolds and their applications

PREPRINTS

[P1] **Z. Peng**, H. Li, C. Pan, D. Zhao, "Local Linear Convergence Rate of Scaled Gradient Descent for Low-rank Matrix Estimation," 2023.

JOURNAL ARTICLES

[J1] H. Li, **Z. Peng**, C. Pan, D. Zhao, "Fast gradient method for low-rank matrix estimation," *Journal of Scientific Computing*, vol. 96, no. 2, pp. 41, 2023.

[J2] **Z. Peng**, H. Li, , D. Zhao, C. Pan, "Reducing the Dimensionality of SPD Matrices with Neural Networks in BCI," *Mathematics*, vol. 11, no. 7, pp. 1570, 2023.

CONFERENCE PAPERS

[C1]

INVITED TALKS

[T1]

PROFESSIONAL SERVICE

1. Reviewer for the following journals:
2. Reviewer for the following conferences:

TEACHING

1. *Matrix Theory* by Professor D. Zhao, Fall 2020 $\sim$ Spring 2022, Teaching Assistant
2. *Linear Algebra* by Professor H. Li, Fall 2017 $\sim$ Spring 2021, Teaching Assistant

AWARDS AND HONORS

1. Outstanding Graduate, Beihang University   *2023*
2. Outstanding Dissertation Award, Beihang University   *2023*