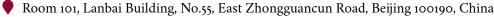
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Education

2021.09 – current Ph.D. student in computational mathematics.

Academy of Mathematics and System Science, Chinese Academy of Sciences; and University of Chinese Academy of Sciences

2017.09 - 2021.07

Bachelor in mathematics and applied mathematics School of Mathematical Sciences, Tongji University.

Publications

- B. Gao, R. Peng, and Y.-x. Yuan, "Low-rank optimization on Tucker tensor varieties," *Mathematical Programming*, pp. 1–51, 2025. ODI: 10.1007/s10107-024-02186-w.
- 2 C. Zhu, R. Peng, B. Gao, and X. Wang, "Riemannian optimization for Holevo capacity," arXiv preprint arXiv:2501.11576, 2025.
- B. Gao, R. Peng, and Y.-x. Yuan, "Desingularization of bounded-rank tensor sets," arXiv preprint arXiv:2411.14093, 2024.
- B. Gao, R. Peng, and Y.-x. Yuan, "Riemannian preconditioned algorithms for tensor completion via tensor ring decomposition," *Computational Optimization and Applications*, vol. 88, pp. 443–468, 2024.
 DOI: 10.1007/s10589-024-00559-7.
- B. Gao, R. Peng, and Y.-x. Yuan, "Optimization on product manifolds under a preconditioned metric," *arXiv preprint arXiv:2306.08873*, 2023.
- 6 L.-X. Zhang, R.-F. Peng, and J.-F. Yin, "A second order numerical scheme for fractional option pricing models," East Asian J. Appl. Math, vol. 11, pp. 326–348, 2021. O DOI: 10.4208/eajam.020820.121120.

Skills

Languages

Mandarin Chinese, English.

Coding

Matlab, C, C++, LaTeX, ...

& Awards and Achievements

2024/09

Loo-Keng Hua Scholarship.

2021/09

Loo-Keng Hua Scholarship.

Presentations

The 7th PKU PhD Symposium for Applied Mathematics. Beijing, China.