

HANJU WU

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RESEARCH INTERESTS

Mathematical optimization especially Riemannian optimization

EDUCATION

B.Sc. in Mathematics, Sun Yat-sen University 2019 - 2023
CGPA: 4.1/5.0 (91/100)
Major GPA: 4.3/5.0 (93/100)
Thesis: Complexity of two-metric projection method for Bound-constrained Optimization Advisor: Dr Yue Xie

M.Phil. in Mathematics, The University of Hong Kong 2023 - 2025

SKILLS

Writing	\LaTeX
Programming	C, C++, MATLAB, Julia
Language	Mandarin, Cantonese, English(IELTS 6.5)

EXPERIENCE

Research Intern BICMR, Peking University	July 2022 - September 2022 Supervisor: Prof. Zaiwen Wen
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- Software implementation for proximal gradient methods

Research Assistant Department of Mathematics, The University of Hong Kong	June 2023 - Dec 2023 Supervisor: Dr Yue Xie
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PUBLICATION

Conference paper published:

- Hanju Wu and Yue Xie, *A Study on Two-Metric Projection Methods*, **2024 Informs Optimization Society Conference**

Work in progress:

- Hanju Wu and Yue Xie, *Two-Metric Adaptive Projection Methods: a superlinear convergence algorithm with manifold identification for ℓ_1 -norm regularization problem*
- Hanju Wu and Yue Xie, *Complexity of Two-Metric Projection Methods*

HONORS AND AWARDS(SELECTED)

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| • First-Class Scholarship(top 5%) | Sun Yat-sen University |
| • First Prize | Contemporary Undergraduate Mathematical Contest in Modeling |
| • Postgraduate Scholarship (441,360 HKD) | The University of Hong Kong |

TEACHING

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|---------------------------|-------------------------------|
| • Summer Course IDSS 2301 | Teaching Assistant
HKU IDS |
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- Scalable Optimization Methods in Data Science

Teaching Assistant
HKU IDS