Shu LI | PhD Student at Inria and DIENS

🗰 2 Rue Simone Iff – 75012 Paris – France

☑ shu.li@inria.fr | alternative: shuligraph@gmail.com

- 😢 shuligraph.github.io
- 0000-0002-4075-9885

Education

2023-now PhD in CS, ARGO of Inria and DIENS, Paris 75012, France

Title Learning in dynamic matching models

Supervisor Ana Bušić

Description Doing

- 2020–2023 **Master of Science**, Graph Theory and its Application, Shandong University of Technology, Zibo 255000, China
 - Title On the Matrix-Tree Theorems of Graphs

Supervisor Jianfeng Wang

- Description We systematically study various Matrix-Tree Theorems for various graphs with elementary proofs, including directed graphs, mixed graphs, oriented graphs, complex unit gain graphs and signed graphs. Indeed, we provide some novel results, which are extensions of Kirchhoff's Matrix-Tree Theorem.
- 2015–2019 **Bachelor of Science**, Mathematics and Applied Mathematics, Shandong University of Technology
 - Courses Linear Algebra, Advanced Calculus, Probability and Statistics, Applied Probability Statistics, Applied Stochastic Processes, Operational Research

Publications and Preprints

- 2023 Matrix-Tree Theorem of digraphs via signless Laplacians
 S. Li, L. Lu, J. Wang, W. Wang, *Linear Algebra and its Application*. Yet more elementary proof of Matrix-Tree Theorem for signed graphs
 S. Li, J. Wang, *Algebra Colloquium*. On graphs with small ranks: old and new results
 S. Li, Z. Stanić, J. Wang, *Advances in Mathematics(China)*.
 2017 Equivalence Relation and Function
 S. Li, H. Li, *Linear Int. J. Trend Res. Dev.*Preprints Matrix-Tree Theorems for Complex Unit Gain Networks
 S. Li, J. Wang, M. Dehmer, M. Brunetti.
 A graph discretization of vector Laplace operator
 - S. Li, L. Lu, J. Wang.

	Talks
2023	On the Matrix-Tree Theorems of Graphs The Third SDUT Postgraduate Academic Forum, May, 2023, Zibo, China.
2022	On graphs with small ranks: old and new results The 10th Int'l Combinatorics and Graph Theory Conference (CMS-CGT2022), Auguest, 2022, Harbin, China.
	A Survey on Matrix-Tree Theorem of Graphs The 9th Int'l Symposium on Graph Theory and Combinatorial Algorithms (ORSC-GTCA2022), July, 2022, Hangzhou, China.
	Computer skills
	Python, SageMath, C/C++, Mathematica WSL2, Git, P_EX
	Languages 🚟 Hello 🔲 Bonjour 📕 Ni Hao