

Sylvester W. Zhang

张文泽

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- Personal Info** **Email:** swzhang@umn.edu
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Address: Vincent Hall 426, 206 Church Street SE, Minneapolis, MN 55455
- Research** Algebraic combinatorics.
- Education** **University of Minnesota, Twin Cities** Minneapolis, MN
Ph.D. in Mathematics Sep 2020 – In Progress
Advisor: Pavlo Pylyavskyy
B.S. in Mathematics Sep 2016 – May 2020
B.A. in Quantitative Economics Sep 2016 – May 2020
- Publications** **6. An Expansion Formula for Decorated Super-Teichmüller Spaces.**
with G. Musiker & N. Ovenhouse.
[SIGMA 17 \(2021\) 080](#), [arXiv:2102.09143](#).
- Preprints** **5. A Lattice Model for Super LLT Polynomials.**
with M. Curran, C. Frechette, C. Yost-Wolff, & V. Zhang
[arXiv:2110.07597](#), 2021.
4. Double Dimer Covers on Snake Graphs from Super Cluster Expansions.
with G. Musiker & N. Ovenhouse.
[arXiv:2107.14785](#), 2021.
3. Rooted Clusters for Graph LP Algebras.
with E. Banaian, S. Chepuri, & E. Kelley.
[arXiv:2107.14785](#), 2021.
2. Rowmotion Orbits of Trapezoid Posets.
with J. Wellman, Q. Dao, & C. Yost-Wolff.
[arXiv:2002.04810](#), 2020.
1. Arborecence of Covering Graphs.
with S. Chepuri, C. Dowd, A. Hardt, G. Michel, & V. Zhang.
[arXiv:1912.01060](#), 2019.
- Talks** **Schur and LLT Polynomials from Lattice Models.** March 2021
Graduate Online Combinatorics Colloquium (GOCC)
T-paths Formula for Decorated Super-Teichmüller Spaces. Feb 2021
Combinatorics Seminar, University of Minnesota

Teaching

Teaching assistant, University of Minnesota

Math 1372: Fall 2021

Math 1271: Fall 2020 Spring 2021

Math 1051: Fall 2019 Spring 2020

Mentoring

Algebra and Combinatorics REU at the University of Minnesota

• Kazhdan-Lusztig immanants and q -immanants. (TA) Summer 2021

Students: Frank Lu, Kevin Ren, Dawei Shen and Siki Wang

Skills

Programming

Python, Mathematica, SageMath, HTML, \LaTeX .

Languages

Chinese Mandarin (native), English (fluent)