

# Sylvester W. Zhang

## 张文泽

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### Personal Information

**Email:** [swzhang@umn.edu](mailto:swzhang@umn.edu)

**Homepage:** <http://www.sylvesterzhang.com>

### Research Interests

Algebraic combinatorics.

### Education

**University of Minnesota, Twin Cities**

Minneapolis, MN

Ph.D. in Mathematics

Sep 2020 – Present

Advisor: Pavlo Pylyavskyy

**University of Minnesota, Twin Cities**

Minneapolis, MN

B.S. in Mathematics

Sep 2016 – May 2020

B.A. in Quantitative Economics

### Preprints

**An Expansion Formula for Decorated Super-Teichmüller Spaces.**

with G. Musiker & N. Ovenhouse.

arXiv preprint [arXiv:2102.09143](https://arxiv.org/abs/2102.09143), 2021.

**Rowmotion Orbits of Trapezoid Posets.**

with J. Wellman, Q. Dao, & C. Yost-Wolff.

arXiv preprint [arXiv:2002.04810](https://arxiv.org/abs/2002.04810), 2020.

**Arborescence of Covering Graphs.**

with S. Chepuri, C. Dowd, A. Hardt, G. Michel, & V. Zhang.

arXiv preprint [arXiv:1912.01060](https://arxiv.org/abs/1912.01060), 2019.

### Work in Progress

**A Lattice Model for LLT Polynomials.**

with M. Curran, C. Yost-Wolff & V. Zhang.

### 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 Experience

**Teaching assistant, University of Minnesota**

Math 1271: Fall 2020 Spring 2021

Math 1051: Fall 2019 Spring 2020

### Skills

**Programming**

Python, SageMath, Mathematica.

**Languages**

Chinese Mandarin (native), English (fluent)