

ZHE XU

University of Oregon
Department of Mathematics
Fenton 309

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EDUCATION

University of Oregon	2023 -
Ph.D. in Mathematics Advisor: Dr. Nicolas Addington	
Simon Fraser University	2021 - 2023
M.Sc. in Mathematics Thesis: <i>Toric analysis of symmetric differentials on A_n singularities</i> Advisor: Dr. Nils Bruin	
Simon Fraser University	2018 - 2021
B.Sc. honours in Mathematics First class with distinction	

PUBLICATIONS AND PREPRINTS

1. Nils Bruin, Nathan Ilten, Zhe Xu, “Local Euler characteristics of A_n -singularities and their application to hyperbolicity,” *Épjournal de Géométrie Algébrique*, Volume 9 Article no. 2 (2025). ArXiv preprint [arXiv:2312.01722](https://arxiv.org/abs/2312.01722).

TALKS

3. *Klyachko’s classification on toric vector bundles*. University of Oregon, Student Geometry Seminar, Jan 22, 2025.
2. *On the local behaviour of symmetric differentials at the blow-up of du Val singularities*. Simon Fraser University, NTAG Seminar, October 13, 2022.
1. *On the local behaviour of symmetric differentials at the blow-up of du Val singularities*. Zoom, Escuela de Álgebra Amarun, October 4, 2022.

TEACHING EXPERIENCE

University of Oregon

Teaching assistant, Stat 241Z: Elementary Statistics (Fall 2025).

Instructor, MATH 341: Linear Algebra I (Summer 2025).

Instructor, MATH 111Z: Precalculus I (Spring 2025).

Instructor, MATH 111Z: Precalculus I (Winter 2025).

¹Updated November 26, 2025

Teaching assistant, MATH 241: Calculus for Business and Social Science I (Fall 2024).

Instructor, MATH 251: Calculus I (Summer 2024).

Instructor, MATH 251: Calculus I (Spring 2024).

Instructor, MATH 111Z: Precalculus I (Winter 2024).

Teaching assistant, MATH 111Z: Precalculus I (Fall 2023).

Simon Fraser University

Teaching assistant, MATH 341 Algebra III: Groups (Spring 2023).

Teaching assistant, Applied calculus Workshop (Spring 2023).

Teaching assistant, Algebra workshop (Fall 2022).

Teaching assistant, algebra workshop (Spring 2022).

PROGRAMMING SKILLS

Macaulay 2, Magma computational algebra system, C++, Matlab, Maple.

LANGUAGES

English(fluent),Tong-Tai Chinese(native), Mandarin Chinese(native), Cantonese(moderate).