

YIZHENG XIE

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EDUCATION

Simon Fraser University Ph.D. in Computing Science; GPA: 4.3/4.3 Advisor: Prof. Andrea Tagliasacchi	2025 – Now
Technical University of Munich M.Sc. in Informatics; GPA: 1.2/1.0	2021 – 2025
University of California, Berkeley B.S. Exchange Program in Computer Science; GPA: 4.0/4.0	2020 – 2021
Xi'an Jiaotong University B.S. in Computer Science; Honors Program for the Gifted Young	2014 – 2020

RESEARCH INTERESTS

Neural scene representations, 3D Gaussian splatting, geometry processing, shape matching, computer vision

PUBLICATIONS

[4] DeepShapeMatchingKit: Accelerated Functional Map Solver and Shape Matching Pipelines Revisited. (Oral). Link . Y. Xie, L. Bastian, C. Deng, T. W. Mitchel, M. Gao, D. Cremers	CVPRW 2026
[3] EchoMatch: Partial-to-Partial Shape Matching via Correspondence Reflection. Link . Y. Xie*, V. Ehm*, P. Roetzer, N. El Amrani, M. Gao, F. Bernard, D. Cremers	CVPR 2025
[2] Beyond Complete Shapes: A Benchmark for Quantitative Evaluation of 3D Shape Matching Algorithms. (Oral). Link . V. Ehm*, N. El Amrani*, Y. Xie, L. Bastian, M. Gao, W. Wang, L. Sang, D. Cao, T. Weissberg, Z. Laehner, D. Cremers, F. Bernard	SGP 2025
[1] Hybrid Functional Maps for Crease-Aware Non-Isometric Shape Matching. Link . Y. Xie*, L. Bastian*, N. Navab, Z. Laehner	CVPR 2024

*Equal contribution.

ACADEMIC SERVICES

Workshop Organiser Geometric Intelligence: From Vision to Scientific Discovery, ECCV 2026. Link .	2026
Reviewer CVPR 2026; SIGGRAPH 2026 Journal Track; SIGGRAPH Asia 2026 Dual Track.	2026

TEACHING AND TALKS

Teaching Assistant Simon Fraser University, CMPT 420 D100, Deep Learning	2026
Functional Maps for Shape Matching Tutorial Seminar and tutorial, GCPR 2024, Eurographics 2025, and CVPR 2025. Link .	2025

AWARDS AND FELLOWSHIPS

Simon Fraser University: Ralph M. Howatt Family Graduate Scholarship (Spring 2026); PhD Research Scholarship (Fall 2025 – Summer 2026); CMPT Graduate Fellowship (Fall 2025).

Others: Deutschlandstipendium, TU Munich (2025); Conference Travel Grant, TU Munich (2025); Qiu Changrong Scholarship, XJTU Honors College (2021); Scholarship of Excellence, XJTU Honors College (2020); Berkeley Exchange Scholarship, XJTU Honors College (2020).

ADDITIONAL LEADERSHIP

Video Production, MyGermanUniversity.com 2022 – 2023
Produced webinar, lecture, and tutorial videos for international student audiences.

Head of Creative Media Department, XJTU Student Media 2017 – 2019
Led team in photography, cinematography, and 360 camera work; won national and institutional awards.

SKILLS

Technical Python, PyTorch, C++, Polyscope, Blender, Adobe Premiere, Adobe Photoshop
Languages Chinese, English, German (B1)