

YIZHENG XIE

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EDUCATION

Technical University of Munich (TUM)

M.Sc. in Informatics (Computer Science)

- GPA 1.3/1.0, German system, ranking top 20%

University of California, Berkeley (UCB)

Exchange Study in Computer Science Department

- GPA 4.0/4.0, ranking top 3% out of 1000

Xi'an Jiaotong University (XJTU)

B.S. in Computer Science and Technology (Honors Youth Program)

- Honors Program for the Gifted Young (with admission rate of 4%)
- GPA 3.54/4.3, ranking top 25% out of 100

Tianmen Hangzhou Huatai Middle School

Diploma Middle School

- w/ Outstanding Academic Record

Ganyi Town Primary School

Diploma Primary School

- w/ Great Academic Record

Munich, Germany

Oct. 2021 - present

Berkeley, CA

Jan. 2020 - May. 2020

Xi'an, China

Sep. 2014 - Jul. 2021

Hubei, China

Sep. 2011 - Jul. 2014

Hubei, China

Sep. 2007 - Jul. 2011

ACADEMIC INTERESTS

3D Shape Matching, Graphics Rendering

PUBLICATION

Hybrid Functional Maps for Crease-Aware Non-Isometric Shape Matching

CVPR 2024

Lennart Bastian, Yizheng Xie*, Nassir Navab, Zorah Löhner*

- Novel hybrid Fmap, improved geodesic error on challenging benchmarks by 15-45%
- <https://hybridfmaps.github.io/>

Beyond Complete Shapes: A Procedural Framework and Benchmark for Partial 3D Shape Matching

SGP 2025

Viktoria Ehm, Nafie El Amrani*, Yizheng Xie, Lennart Bastian, Maolin Gao, Weikang Wang, Lu Sang, Dongliang Cao, Daniel Cremers, Zorah Löhner, Florian Bernard*

- Comprehensive framework, benchmark and evaluation for partial 3D shape matching
- <https://becos-authors.github.io/BeCoS/>

EchoMatch: Partial-to-Partial Shape Matching via Correspondence Reflection

CVPR 2025

Yizheng Xie, Viktoria Ehm*, Paul Roetzer, Nafie El Amrani, Maolin Gao, Florian Bernard, Daniel Cremers*

- Novel overlap predictor, improved IoU performance on all challenging benchmarks by avg. 12%
- <https://echo-match.github.io/>

STUDENT JOB

Student Video Editor (online, part-time)

MyGermanUniversity.com (online education platform)

- Webinars, Lectures and Tutorials Video Editing

2022 – 2023

SEMINAR

An Introductory Perspective on Functional Maps

3D Shape Matching and Applications (TUM)

- Seminar report, beginner's intuitive explanation for functional map representation

Aug. 2023 - Sep. 2023

COURSE PROJECTS

Entry-Level Trading Pattern Study with Online Market Data

- Undergraduate Thesis

Sep. 2020 - May. 2021

<ul style="list-style-type: none"> • Built a minimal pipeline to collect public market data • Studied an open published model on patterns in buying and selling orders 	
A Database Management System (Introduction to Database)	<i>Spring 2020</i>
<ul style="list-style-type: none"> • Across semester projects, including B+ Tree, Joins and Query Optimization 	
The Pacman and Ghostbusters Projects	<i>Spring 2020</i>
<ul style="list-style-type: none"> • Introduction to Search Algorithms, Probabilistic Inferences • With additional projects such as BNs and HMMs Ghostbusters 	
Computer Processor (Introduction to Computer Processors)	<i>Sep. 2019 - Jan. 2020</i>
<ul style="list-style-type: none"> • Toy CPU with step-by-step instructions run • Timing techniques to make sure steps don't conflict during fast execution 	
Game and Display FPGA Module (Introduction to Digital Electronics)	<i>Sep. 2018 - Jan. 2019</i>
<ul style="list-style-type: none"> • This module can play a <i>Breakout</i> game, generate different waves and display custom images with zooming operations 	

SUMMER CAMP

Ohio State University	<i>Columbus, OH</i>
<i>Undergraduate Visiting Summer Camp</i>	<i>July. 2018</i>

SKILLS

Languages: Chinese (Native), English (Fluent/TOEFL 105), German (Beginner/B1)
Softwares: Python, Polyscope, Adobe Premiere, Adobe Photoshop

STUDENT-CLUB

Department Lead (<u>Video</u>): Student Video Editing Club	<i>May. 2017 - May. 2019</i>
<ul style="list-style-type: none"> • specialized in <u>artistic content creation</u>, reaching campus students • https://b23.tv/ollGPmB 	

SCHOLARSHIPS

Deutschland Stipendium (Germany Scholarship)	<i>April. 2025</i>
Scholarship of Excellence (university, top 10%)	<i>Dec. 2020</i>
Honors College Scholarship (exchange study)	<i>May. 2020</i>
Scholarship of Excellence (university, top 30%)	<i>Dec. 2019</i>
Honors College Scholarship (summer visit camp)	<i>Aug. 2018</i>
Scholarship of Excellence (university, top 30%)	<i>Dec. 2017</i>
Need-Based Student Grant (university, student poverty aid)	<i>2015 - 2021</i>

MISC-AWARDS

First Prize, Tengfei Cup Student Technology Fair (campus-level)	<i>2019</i>
Excellence Award, Student Online Culture Showcase	<i>2019</i>
Silver Award, Shaanxi Province Student Startup Contest	<i>2018</i>
Bronze Award, Youth Innovation Student Entrepreneurship Challenge	<i>2018</i>
Silver Award, University Student Innovation Program (campus-level)	<i>2018</i>
Excellent Final Report, Provincial Innovation Training Program	<i>2018</i>
Model Dormitory Award	<i>2018</i>
Outstanding Contributor, Campus Media Team	<i>2017</i>