

# YIZHENG XIE

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## EDUCATION

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<b>Technical University of Munich (TUM)</b> <i>M.Sc. in Informatics (Computer Science)</i> <ul style="list-style-type: none"><li>· GPA 1.3/1.0, German system, ranking top 20%</li></ul>	<i>Munich, Germany</i> <i>Oct. 2021 - present</i>
<b>University of California, Berkeley (UCB)</b> <i>Exchange Study in Computer Science Department</i> <ul style="list-style-type: none"><li>· GPA 4.0/4.0, ranking top 3% out of 1000</li></ul>	<i>Berkeley, CA</i> <i>Jan. 2020 - May. 2020</i>
<b>Xi'an Jiaotong University (XJTU)</b> <i>B.S. in Computer Science and Technology (Honors Youth Program)</i> <ul style="list-style-type: none"><li>· Honors Program for the Gifted Young (with admission rate of 4%)</li><li>· GPA 3.54/4.3, ranking top 25% out of 100</li></ul>	<i>Xi'an, China</i> <i>Sep. 2014 - Jul. 2021</i>
<b>Tianmen Hangzhou Huatai Middle School</b> <i>Diploma Middle School</i> <ul style="list-style-type: none"><li>· w/ Outstanding Academic Record</li></ul>	<i>Hubei, China</i> <i>Sep. 2011 - Jul. 2014</i>
<b>Ganyi Town Primary School</b> <i>Diploma Primary School</i> <ul style="list-style-type: none"><li>· w/ Great Academic Record</li></ul>	<i>Hubei, China</i> <i>Sep. 2007 - Jul. 2011</i>

## ACADEMIC INTERESTS

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### 3D Shape Matching, Graphics Rendering

## PUBLICATION

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<b>EchoMatch: Partial-to-Partial Shape Matching via Correspondence Reflection</b> <i>Yizheng Xie*</i> , Viktoria Ehm*, Paul Roetzer, Nafie El Amrani, Maolin Gao, Florian Bernard, <u>Daniel Cremers</u> <ul style="list-style-type: none"><li>· Novel overlap predictor, improved IoU performance on all challenging benchmarks by avg. 12%</li><li>· <a href="https://echo-match.github.io/">https://echo-match.github.io/</a></li></ul>	<i>CVPR 2025</i>
<b>Beyond Complete Shapes: A Procedural Framework and Benchmark for Partial 3D Shape Matching</b> <i>Viktoria Ehm*, Nafie El Amrani*, Yizheng Xie, Lennart Bastian, Maolin Gao, Weikang Wang, Lu Sang, Dongliang Cao, Daniel Cremers, Zorah Löhner, <u>Florian Bernard</u></i> <ul style="list-style-type: none"><li>· Comprehensive framework, benchmark and evaluation for partial 3D shape matching</li><li>· <a href="https://becos-authors.github.io/BeCoS/">https://becos-authors.github.io/BeCoS/</a></li></ul>	<i>SGP 2025</i>
<b>Hybrid Functional Maps for Crease-Aware Non-Isometric Shape Matching</b> <i>Lennart Bastian*, Yizheng Xie*, Nassir Navab, <u>Zorah Löhner</u></i> <ul style="list-style-type: none"><li>· Novel hybrid Fmap, improved geodesic error on challenging benchmarks by 15-45%</li><li>· <a href="https://hybridfmaps.github.io/">https://hybridfmaps.github.io/</a></li></ul>	<i>CVPR 2024</i>

## STUDENT JOB

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Student Video Editor (online, part-time) <i>MyGermanUniversity.com (online education platform)</i> <ul style="list-style-type: none"><li>· Webinars, Lectures and Tutorials Video Editing</li></ul>	<i>2022 – 2023</i>
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## SEMINAR

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An Introductory Perspective on Functional Maps <i>3D Shape Matching and Applications (TUM)</i> <ul style="list-style-type: none"><li>· Seminar report, beginner's intuitive explanation for functional map representation</li></ul>	<i>Aug. 2023 - Sep. 2023</i>
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## UNDERGRADUATE COURSE PROJECTS

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Entry-Level Trading Pattern Study with Online Market Data	<i>Sep.2020 - May. 2021</i>
· Undergraduate Thesis	
· Built an entry 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>
· Exchange semester projects, including B+ Tree, Joins and Query Optimization	
The Pacman and Ghostbusters Projects	<i>Spring 2020</i>
· 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>
· 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>
· This module can play a <i>Breakout</i> game, generate different waves and display custom images with zooming operations	

## STUDENT-CLUB

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Department Lead ( <u>Video</u> ): Student Video Editing Club	<i>May. 2017 - May. 2019</i>
· specialized in <u>artistic content creation</u> , reaching campus students	
· <a href="https://b23.tv/ollGPmB">https://b23.tv/ollGPmB</a>	

## SUMMER CAMP

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

## SCHOLARSHIPS

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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

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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>

## SKILLS

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