

EDUCATION

University College London (UCL)

M.Sc. Computer Graphics, Vision and Imaging
Machine Learning for Visual Computing, Neural Bounding Hierarchies, Rendering

UK, London
2024 - **present**

University College London (UCL)

M.Sc. Master of Science, Architectural Computation - with Distinction (Distinction best)
Software Development, Design Research, Complex geometry

UK, London
2021 - 2022

Virginia Tech (VT)

Study abroad, Architecture - 4,0 (4,0 best)
Architectural Planning, Parametric Modeling, ABB robotics

US, Blacksburg
2019

University of Applied Sciences Dusseldorf (HSD)

B.A. Bachelor of Arts, Architecture and Interior Design - 1,4 (1,0 best), Valedictorian
Architectural Planning, Graphic Design, Craftsmanship

DE, Düsseldorf
2017 - 2021

EXPERIENCE

Foster + Partners , Applied Research + Development

- Played a key role in improving and developing on their environmental analysis software for real-time building simulations and optimizing architectural designs. Implemented new features and analyses using C#, C++ and CUDA with custom wrappers for raytracing. Specifically focused on improving the user experience for the software's office-wide launch and worked closely with software user groups as well as the software lead engineer.
- Office-wide design consultation, offering expertise in complex geometry modeling, performance-driven design, and building optimization across a range of projects and all scales (Pavilions to Cities)
- Software development for multiple internal products

UK, London
Oct 2022 - Sep 2024

YÜ , Co-Founder

- Developed a deterministic algorithm that transforms letters into jewellery like geometry
- Crafted over 100 distinctive pieces out of silver and gold using additive manufacturing
- Founded the start-up "YÜ" in my second year of undergraduate with my dean's research assistant to commercialize custom generated jewellery
- Created a website including a web embedded version of the jewellery algorithm for customers and developed a brand - www.yubyyou.com.

DE, Neuss
May 2019 - Dec 2022

University of Applied Sciences Dusseldorf (HSD) , student assistant

- Dean Prof. Dipl. -Ing. Judith Reitz, Fundamentals of Architecture (Oct'20 - Dec'20; Sep'18 - Aug'19)
- Served as a teaching assistant for the architectural planning module "Entwerfen I"
 - Contributed to the design of a city guide of Cologne, showcasing the work of students

DE, Düsseldorf
Oct 2018 - Dec 2020

Prof. Dr. -Ing. Eike Musall, Building Performance (Mar'20 - Jul'20)

- Conducted research on computational tools to assess building performance

Prof. Dipl. -Ing. Moritz Fleischmann, Data-Driven Design & Production (Nov'18 - Apr'19)

- Assisted in the organization of the Symposium for Digital Methods in Architecture (SDMA) held at the University of Applied Sciences in Düsseldorf in April 2019

AWARDS & SCHOLARSHIPS

UCL MSc Architectural Computation Gold Prize 2021/22

2022

HSD Deans Award 2021

2021

Scholarship @ German Academic Scholarship Foundation

Nov 2020 - Sep 2022

Scholarship @ Kölner Gymnasial- und Stiftungsfonds

Nov 2018 - Apr 2020

SKILLS

Programming : C#, Python, PyTorch, Grasshopper 3D, HTML CSS JS

Software : Rhinoceros 3D, Affinity Designer / Photo / Publisher, Blender, Adobe Photoshop / Illustrator / After Effects / InDesign, Microsoft Office, Microsoft Visual Studio / Visual Studio Code, Unity, Cinema 4D

Languages : German (native), English (full professional proficiency)