JULIUS ÜBERALL

juliusueberall@gmail.com
www.juliusuberall.com

EDUCATION

University College London (UCL)
M.Sc. Computer Graphics, Vision and Imaging - *Distinction expected* (Distinction best)
Supervisor: **Tobias Ritschel**, Thesis: Bounding Expert Hierarchies
Eurographics 2025 Volunteer

UK, London
2024 - 2025

University College London (UCL)
M.Sc. Architectural Computation - Distinction (Distinction best)
Supervisor: **Shajay Bhooshan**, Thesis: Functionally Graded 3D Printing Toolpaths

UK, London
2021 - 2022

Virginia Tech (VT)
Study abroad, Architecture - 4,0 (4,0 best)

US, Blacksburg
2019

University of Applied Sciences Düsseldorf (HSD)
B.A. Architecture and Interior Design - 1,4 (1,0 best), Valedictorian

DE, Düsseldorf
2017 -2021

EXPERIENCE

Foster + Partners, **Applied Research + Development**
Head: **Martha Tsigkari**
- Played a key role in improving and developing Cyclops, a publicly released real-time environmental building simulation software for optimizing architectural designs. Implemented new features and analyses using C#, C++ and CUDA with custom wrappers. Specifically focused on improving the user experience for the software's office-wide launch and worked closely with user groups as well as the software lead engineer (*https://cyclops.fosterandpartners.com*)
- Office-wide design consultation, offering expertise in complex geometry modeling, performance-driven design, and building optimization across a range of projects and all scales (Pavilion to City)

UK, London
Oct 2022 - Sep 2024

YŪ, **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 "YŪ" in my second year of undergraduate with my dean's research assistant to commercialize custom generated jewellery
- Launched a website including a web embedded version of the jewellery algorithm and developed a Brand (*www.yubyyou.com*)

DE, Neuss
May 2019 - Dec 2022

University of Applied Sciences Düsseldorf, **Student assistant**
Dean Prof. Dipl. -Ing. Judith Reitz, Fundamentals of Architecture (Oct'20 - Dec'20; Sep'18 - Aug'19)
Prof. Dr. -Ing. Eike Musall, Building Performance (Mar'20 -Jul'20)
Prof. Dipl. -Ing. Moritz Fleischmann, Data-Driven Design & Production (Nov'18 - Apr'19)

DE, Düsseldorf
Oct 2018 - Dec 2020

AWARDS & SCHOLARSHIPS

Scholarship @ German Academic Scholarship Foundation — Nov 2020 - Sep 2022
UCL MSc Architectural Computation Gold Prize 2021/22 — 2022
HSD Deans Award 2021 (Valedictorian) — 2021
Scholarship @ Kölner Gymnasial- und Stiftungsfonds — Nov 2018 - Apr 2020

SKILLS

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