

Clara Blum
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CURRICULUM VITAE - 01.2025

PROFESSIONAL EXPERIENCE

01.2025 - present PhD doctorate position on tracking and tracing regenerative materials in the Think Earth InnoSuisse Flagship Program
Circular Engineering for Architecture (CEA) lab
ETH Zürich

06.2023 - 07.2024 **Research assistant** · ICD · Robotic Fabrication of Large-Scale Construction
Robotics Laboratory (LCRL) · DesFab - design-to-fabrication framework
Quantitative Analysis of Multi-Storey Timber Fabrication Stakeholders

06.2023 - 08.2023 **Research assistant** · ICD · AR-based Human-Robot Collaboration
Conducting user studies with the industry partner

11.2021 - 08.2022 **Research assistant** · Institute for solid construction
digital twin bridge project · Technical University Dresden

06.2021 - 08.2022 **Research and teaching assistant** · Institute for construction informatics
Technical University Dresden

10.2020 - 05.2021 **Undergraduate salaried apprentice** · Werner Sobek Design GmbH · Berlin
05.2020 - 09.2020 Undergraduate intern · Werner Sobek Design GmbH · Stuttgart
11.2018 - 03.2019 Student intern · Energiehaus · Barcelona
08.2018 Student intern · building site · Neue National Galerie Berlin · dhib Dechant
09.2017 Student intern · building site · Physikalisch Technische Bundesanstalt Berlin ·
Berger Grundbau GmbH
05.2016 Intern · Georg Scheel Wetzels · Berlin

EDUCATION AND TRAINING

10.2022 - 10.2024 Integrative Technologies and Architectural Design Research (MSc 1,2 · with distinction)
University of Stuttgart

10.2020 - 08.2022 **Civil engineering studies (BSc)** · Technical University Dresden

10.2019 - 09.2020 **Cooperative waste management seminar** · Greening Africa Together · Technical
University Berlin · Uganda

07.2019 Certified Passive House Consultant · Passive House Institute · Madrid

10.2016 - 03.2020 **Architectural studies (BSc 2,0)** · Technical University Berlin

09.2008 - 06.2016 Abitur (1,6) · Evangelisches Gymnasium zum grauen Kloster Berlin

LANGUAGES

German - native
English - professional
Spanish - professional
French - (B1)

DISTINCTIONS

Student Grantee · Wübben Stiftung Wissenschaft · 2023 - 2024
Publication Co-Author · Multi-Storey Timber Fabrication
Stakeholders: A Quantitative Review of over 150 Global Timber
Fabricators · In Process

COMPUTATIONAL SKILLS

Rhino · Grasshopper
Python · C# · Java
json | html · css
Photoshop · Illustrator · Indesign
KUKA Robot Programming 1
Revit · Dynamo
Adobe Creative Cloud
Autocad + Archicad
MS Office
PHPP - Solibri Model Checker

CURRENT SKILL BUILDING DEVELOPMENT

PostgreSQL + MongoDB + Neo4j

EXTRACURRICULAR ACTIVITIES

Start Science Mentee · Uni Stuttgart · 2023 - 2024
Open Hands and Hearts volunteer · Nepal · 2023
Reviewer for university research projects at FOSTER (TUD) · 2022
Architects for Future Volunteer · Berlin · 2022