

Forschungswerkstatt *Krise und Transformation des Eigenheims*

Sub-project *Krise als Chance oder Weiterentwerfen des Eigenheims: Von der Empirie zu baulich-räumlichen Transformation*

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Thesis Group Single-Family House

Application of empirical knowledge in planning and design

Julia von Mende, Hanna Maria Schlösser

Building upon the empirical study of single-family houses and their residents from the research-based teaching format *Half Measures - The Single-Family House for Disposition* in the summer semester of 2023, the winter semester of 2023/24 will see the practical application of this knowledge in design. In this context, a thesis within the B.Sc. Architecture program will be offered, focusing on the single-family house.

Together, we aim to explore how partially unused and abandoned spaces in 'empty-nest' homes can be revitalized as part of a socio-ecological transformation. We will examine how the current form of housing can be supplemented, expanded, or altered. This concept of redensification of existing buildings will be approached from various angles: legislative and/or economic frameworks such as property or building law, typological studies, structural analysis and design interventions at the individual building level, and finally, programmatically in terms of potential reallocations. This will encompass an expanded concept of housing that goes beyond the scale of the individual building.

In the research-based teaching format *Half Measures - The Single-Family House for Disposition*, living practices in eight single-family houses were empirically studied through interviews, visualizations (drawings/diagrams), and model photography. Interviewees provided detailed descriptions of their living experiences, focusing on the rooms, furnishings, fittings, and surroundings of their houses. They also discussed the significance of living in a single-family house and their (future) desires for change.

Against this backdrop, students in the thesis group *Single-Family House* will formulate individual questions for a design study within the existing building stock. Up to five students will base their B.Sc. Architecture thesis on the findings of this research. The thesis group's structure enables students to utilize previous studies' insights and questions, benefit from expert input, and engage in idea exchanges within the group. Participation in the preceding seminar is not a prerequisite.

We are delighted that, aligning with the interdisciplinary approach of the research workshop, the thesis projects will be overseen by various professors of the Faculty of Architecture and Urbanism at the Bauhaus-Universität. Professors Dr. Jasper Cepl, Mona Mahall, and Andreas Garkisch will serve as the primary supervisors for these projects. Supervising these projects within the research workshop presents a unique opportunity to apply empirical knowledge to design. Additionally, it facilitates potential synergy effects through exchanges with other researchers.

Participants: Lukas Purucker, Johanna Roth, Felix Tepel, Leonard von Zumbusch

Guests: Jan Engelke M.Sc. ETH Arch, Johanna Günzel M.Sc., N.N.