ORIENTATION MASTER
Form + Type

STUDIO (2020/2021)
Deep City

PROFESSOR
Jeffrey Huang

TEAM
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LABORATORY
Media x Design Lab, EPFL

SUMMARY (1500 SIGNS)
The advent of new digital technologies has had a twofold impact on architectural thinking and the built environment, transforming, on one hand, the processes for form generation and design production through algorithmic and parametric technologies, and, on the other hand, enabling an escape from the static fate of the built environment by facilitating automated spaces and dynamic interaction between inhabitants and their surrounding. Our interest in this orientation “Form & Type” is to examine the design of new “post-digital” typologies, such as the notion of the expanded home, where nearly everything will take place. In 2020/21 our studio site will be Zurich. Methodologically, we will explore meaningful, data-driven image and form generating processes by the use of AI/Deep Learning and parametric tools.

METHODOLOGY
Artificial Intelligence, Deep Learning, Data-driven Design, Geometry and Form, Experience Design, Grasshopper, Back-end Infrastructures, Front-end Architecture

DURATION
The studio theme will span the entire academic year 2020/21. Accordingly there will be continuity between the fall and spring semester, but each semester can be followed independently.

FIELD TRIP
A field trip to Zurich will ordinarily be organized during the semester.

PREREQUISITES
Prior programming/coding experience is not required.

PARTNER INSTITUTION

LANGUAGE
The official language is English. Desk crits can occur in English or French.

GROUP WORK
Architectural projects will be developed individually or in groups of two. Some group work may occur in the analysis and data collection and deep learning stages.