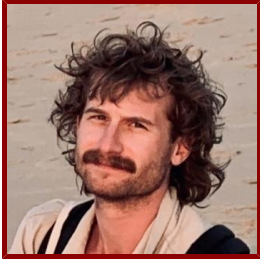


# Stanford

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## Martin J. Bucher

Ph.D. Student in Civil and Environmental Engineering, admitted Autumn 2023

### Bio

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#### EDUCATION AND CERTIFICATIONS

- MSc, ETH Zurich , Computer Science (2022)

#### LINKS

- <https://www.mnbucher.com>: <https://www.mnbucher.com>

### Teaching

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#### COURSES

##### 2023-24

- Designing for Gradient Spaces: CEE 342 (Spr)

### Publications

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#### PUBLICATIONS

- **Performance-Based Generative Design for Parametric Modeling of Engineering Structures Using Deep Conditional Generative Models** *AUTOMATION IN CONSTRUCTION*  
Bucher, M., Kraus, M., Rust, R., Tang, S.  
2023; 156
- **Towards a 'resource cadastre' for a circular economy - Urban-scale building material detection using street view imagery and computer vision** *RESOURCES CONSERVATION AND RECYCLING*  
Raghu, D., Bucher, M., De Wolf, C.  
2023; 198
- **GENEVIZ: A Visual Tool for the Construction and Blockchain-Based Validation of SFC Packages**  
Franco, M. F., Bucher, M. J. J., Scheid, E. J., Granville, L. Z., Stiller, B.  
edited by Djemame, K., Altmann, J., Banares, J. A., Ben-Yehuda, O. A., Naldi, M.  
SPRINGER INTERNATIONAL PUBLISHING AG.2019: 15-28