Stanford

Martin JJ. Bucher

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

Bio

EDUCATION AND CERTIFICATIONS

- MSc, ETH Zurich , Computer Science (2022)

LINKS

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

Teaching

COURSES

2023-24

- Designing for Gradient Spaces: CEE 342 (Spr)

Publications

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