

Your Doctoral Thesis: Declaration of Your Personal Contribution**Name:** Shengyu**First Name:** Huang**Title of Thesis:** Reconstructing Multi-body Dynamics for Compositional Neural Simulation**Thesis Supervisor:** Konrad Schindler**Study Programme (CE, EE, G, REIS):** G

I, declare that this thesis is my own work and has not been submitted in any form for another degree or diploma at any university or other institute. Information derived from the published and unpublished work of others has been acknowledged in the text and a list of references is given in the bibliography.

Declaration of Your Personal Contribution

(brief description of your intellectual contribution, separated by chapter if applicable)

- Chapter 3: I share first authorship with Zan Gojcic (ZG). I was responsible for all code development and baseline evaluations. Together with ZG, I co-led the development of the main idea and contributed to the final writing of the paper.
- Chapter 4 & 5: As the sole first author, I was responsible for all aspects of the chapter, including code development, baseline evaluations, leading the idea development, and writing the paper.
- Chapter 6, I served as the last author and corresponding author. I proposed the project, hired and supervised Mr. Hanfeng Wu, and led the design of the methodology and experimental setup. I also provided the initial codebase and contributed to the majority of the writing.

Cumulative Thesis: yes ☒ no ☐

Additionally, I submit a cumulative thesis as per the requirements outlined in **Art. 10** of the [D-BAUG](#) Detailed Stipulations, and

I hereby confirm that these requirements are fully met **on the submission day of my exam version**, i.e. 8 weeks prior to my doctoral examination.

I confirm that the individual contributions are correctly declared.
And if I submit a cumulative thesis, I confirm that all requirements are fulfilled.

Place, Date: Zurich, 19 August 2024**Signature Doctoral Student:** 