



Student Name Victor Crespo Cuevas Student ID \*\*\*\*\*

Doctoral  Degree in Mechanical Engineering

Thesis Title:

Physically based modeling of biological semi-flexible materials: a novel micromechanical model describing the viscoelastic-plastic response of agarose and fibrin networks

Have you performed research involving human subjects which requires approval from the Institutional Review Board (IRB)?  Yes  No

IRB Protocol Number \_\_\_\_\_

Have you used live animals, animal tissue, or observational animal work which requires approval from the Institutional Animal Care and Use Committee (IACUC)?  Yes  No

IACUC Protocol Number \_\_\_\_\_

Attach the final copy of thesis/dissertation for committee review. While formatting changes may be requested by the Graduate School, the content of the attached document should be final.



**Approvals:**

Committee Chair Name Virginia Ferguson

Signature  Date Signed 7/28/2023

Committee Member Name Franck Vernerey

Signature  Date Signed 7/28/2023

The final copy of this thesis has been examined by the signatories, and we find that both the content and the form meet acceptable presentation standards of scholarly work in the above-mentioned discipline.