



May 6th, 1 – 6pm

NEW.Mech 2022 Welcomes New Faculty

Invited Speakers:



Carlos Portela

d'Arbelloff Career Development Assistant Professor in Mechanical Engineering at MIT
Talk Title: Uncovering the mechanics of architected materials in dynamic conditions



Ruobing Bai

Assistant Professor in the Department of Mechanical and Industrial Engineering at Northeastern University
Talk Title: Mesoscale photomechanical coupling in photoactive materials



Emma Lejeune

Assistant Professor of Mechanical Engineering at Boston University
Talk Title: Open Access Benchmark Datasets and Metamodels for Predicting the Mechanical Behavior of Heterogeneous Materials



Josephine Carstensen

Assistant Professor in the Department Civil and Environment Engineering at MIT
Talk Title: Tailoring Topology Optimization to Advanced Manufacturing



Anna Tarakanova

Assistant Professor of Mechanical and Biomedical Engineering at the University of Connecticut
Talk Title: Molecular computation for bioengineering



Ritu Raman

d'Arbelloff Career Development Assistant Professor of Mechanical Engineering at MIT
Talk Title: Mechanics of Biological Motor Control

Welcome to NEW.Mech!

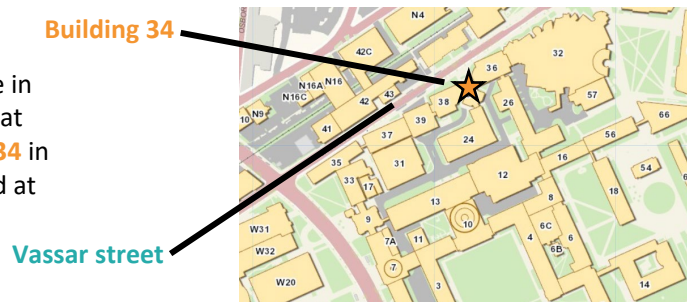
A one-day workshop that aims to bring together the New England Mechanics community with an interest in exploring new research directions in the mechanics of materials and structures, and provides an opportunity to share the latest advancements in the field.

After a two year hiatus, NewMech is back! To revive our vibrant community and to welcome newcomers, our **free** off-cycle event will feature keynote talks of new faculty from the area.

For more information and for registration go to newmech.org

Venue:

NEW.Mech will take place in and around room 34-101 at MIT, which is in **Building 34** in the main campus. Located at **50 Vassar street**.



This event is generously sponsored by:



Program

12:40-1:00

Registration & Reception

1:00-1:10

Opening Remarks

Carlos Portela

1:10-1:40

Uncovering the mechanics of architected materials in dynamic conditions

Ruobing Bai

1:40-2:10

Mesoscale photomechanical coupling in photoactive materials

2:10-2:25

Coffee Break

2:25-3:00

Teaser Talk - Session A

Emma Lejeune

Open Access Benchmark Datasets and Metamodels for Predicting the Mechanical Behavior of Heterogeneous Materials

3:00-3:30

Josephine Carstensen

3:30-4:00

Tailoring Topology Optimization to Advanced Manufacturing

4:00-4:15

Coffee Break

4:15-4:50

Teaser Talk - Session B

Anna Tarakanova

4:50-5:20

Molecular computation for bioengineering

5:20-5:50

Ritu Raman

Mechanics of Biological Motor Control

5:50-6:00

Closing Remarks and Awards

6:00-6:45

Pizza Break

6:45

Movie Night! (room 1-390)

Teaser Talk Session A

Julianna Martinez, University of Rhode Island

Junsoo Kim, Harvard

Chase Hartquist, MIT

Aditya Dey, University of Rochester

Thomas Vitalis, Umass Amherst

Bastian Madsen, University of Rhode Island

Rachel Sun, MIT

Anastasia Tzoumaka, Brown University

Hannah Varner, MIT

Gabriele Albertini, Harvard

Teaser Talk Session B

Aidan Provost, The University of Massachusetts Amherst

Peter Miklavcic, University of Rochester

Xiaoxiao Ding, Harvard

Gary Choi, MIT

Natalie Larson, Harvard

Yiling Fan, MIT

Tyler Chu, University of Rhode Island

Harsh Bhundiya, MIT