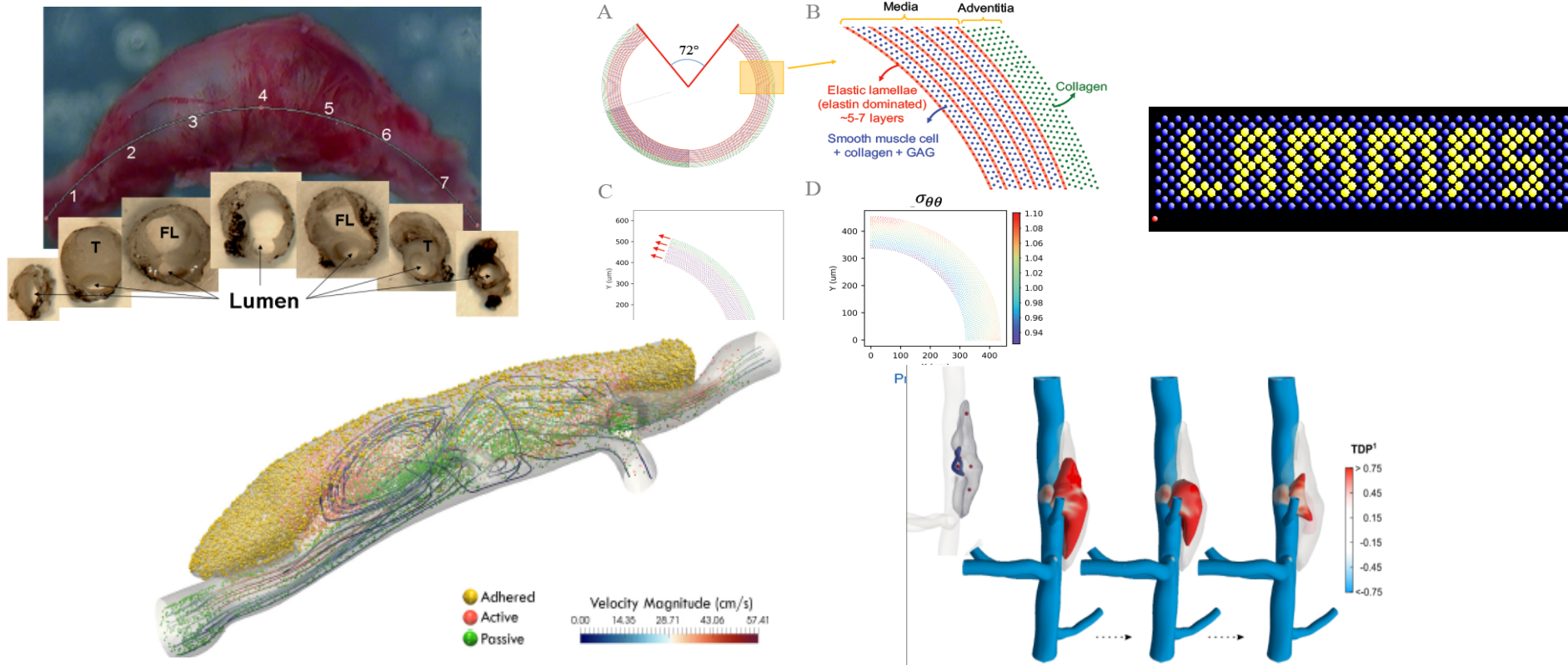*Minglang Yin*
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Crunch Group, Division of Applied Mathematics,
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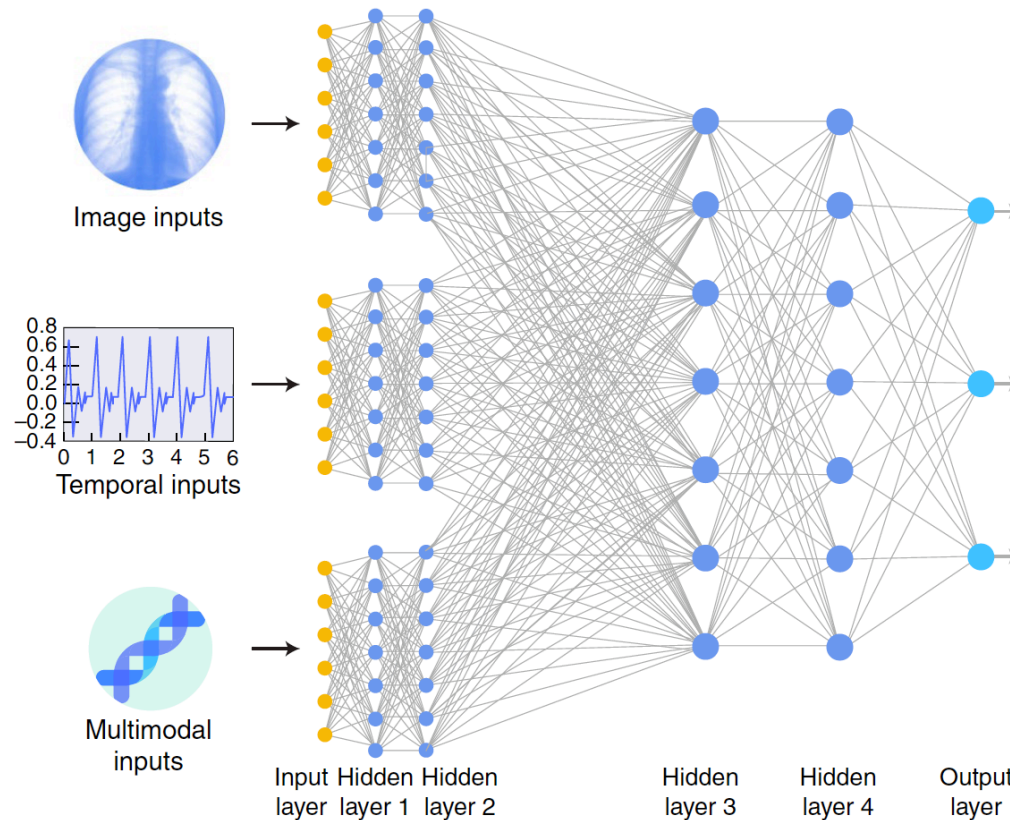**Research interests**: Multiscale Modeling, Machine Learning +, Computational Biomechanics

Project: Multimodality Imaging-driven Multifidelity Modeling of Aortic Dissection

Aim 1: develop multifidelity deterministic models of early intramural delamination processes that lead to dissection

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Aim 2: The ultimate goal is to achieve semi-supervised learning to predict outcomes by integrating findings from different animal models, computational models, and categorical data.

Image inputs

Temporal inputs

Multimodal inputs

Input layer   Hidden layer 1   Hidden layer 2   Hidden layer 3   Hidden layer 4   Output layer

Esteva, Andre, et al. "A guide to deep learning in healthcare." *Nature medicine* 25.1 (2019): 24.

- **Acknowledge**