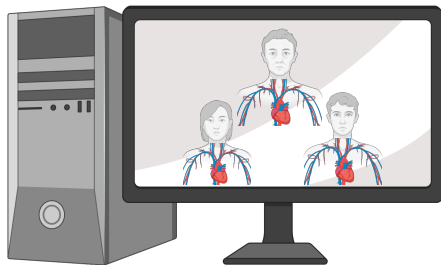
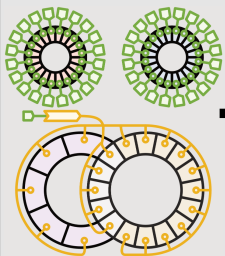


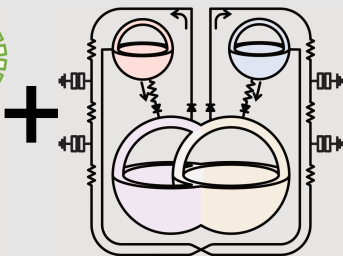
Patient-specific computational models



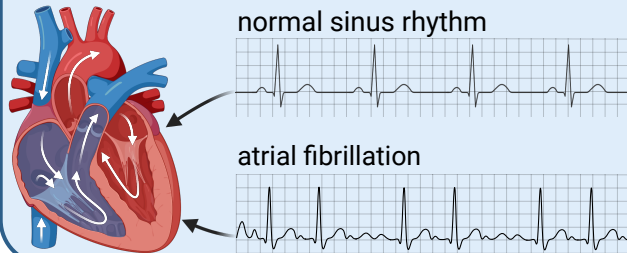
Electrical subsystem



Mechanical subsystem



Simulation of hemodynamics in



Model parameter calibration using



- Heart rate & heart rhythm from ECG
- Cardiac volumes & ejection fraction from echocardiography
- Arterial & intracardiac pressures

Computationally efficient



- Series of 100 heartbeats in ~1s
- Model calibration in ~46min