

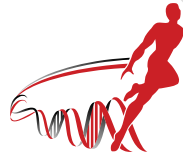


MAP

Musculoskeletal Atlas Project



reproducible research



provenance tracking



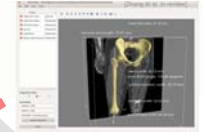
collaborate



- Built on the Physiome Model Repository [PMR]
- Stores models, image, experimental data, and MAP Client Workflows
- Webservices enable search tools



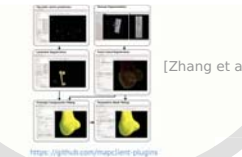
- Perform queries on the population
- Run analyses
- Generate reports



- Client-side cross-platform application
- Written in Python using Qt library
- Manages Workflows
- Plug-in architecture (Steps)

Design criteria:

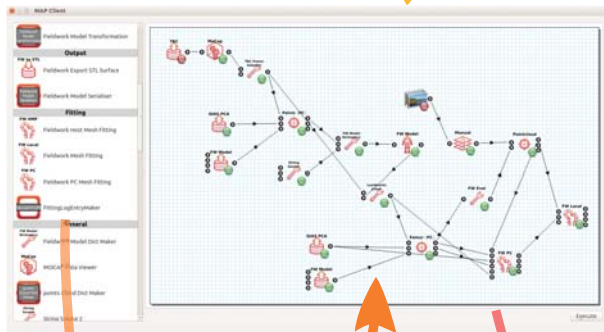
- Ease of use
- Community engagement



[Zhang et al, 2014, ISBMS]

<https://github.com/MapClient/MapClient>

modular workflows



Our aim is to create an anatomical and functional atlas of the musculoskeletal system to rapidly generate subject-specific computational models



<https://github.com/MusculoskeletalAtlasProject>

Imaging & Functional Data



[CT, MRI, EMG, Motion capture, ...]

assembled using steps



OpenSim



interoperate

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