

# **Agenda**

- |                      |   |
|----------------------|---|
| <b>14:00 – 14:15</b> | Welcome and goals of workshop<br>– <i>Jen Hicks</i>   |
| <b>14:15 – 14:35</b> | Inverse dynamics and static optimization: how it works, exercises, & practice<br>– <i>Jeff Reinbolt</i> |
| <b>14:35 – 15:00</b> | Guided analyses and exploration on your own<br>– <i>Jeff Reinbolt &amp; You</i>                         |
| <b>15:00 – 15:20</b> | Forward dynamics simulation: how it works, exercises, & practice<br>– <i>Jeff Reinbolt</i>              |
| <b>15:20 – 15:45</b> | Guided simulation and exploration on your own<br>– <i>Jeff Reinbolt &amp; You</i>                       |
| <b>15:45 – 16:05</b> | Interfacing OpenSim models with MATLAB/Simulink<br>– <i>Jeff Reinbolt</i>                               |
| <b>16:05 – 16:55</b> | Guided control system design and exploration on your own<br>– <i>Jeff Reinbolt &amp; You</i>            |
| <b>16:55 – 17:00</b> | <b>Closing remarks</b><br>– <i>Jen Hicks</i>  |

# OpenSim is a resource

***<http://opensim.stanford.edu>***



The banner features a red header with the NCSRR logo on the left, the OpenSim logo in the center, and a list of actions on the right. Below the header is a blue section with a wireframe human figure on the left and a white inset box on the right. The inset box contains the OpenSim logo and a description of the software. At the bottom right of the blue section is a call to action.

**NCSRR**  
NATIONAL CENTER  
FOR SIMULATION IN  
REHABILITATION  
RESEARCH

**OpenSim Community**

- SEE THE WORK
- JOIN THE COMMUNITY
- FIND SUPPORT, EVENTS, & RESOURCES

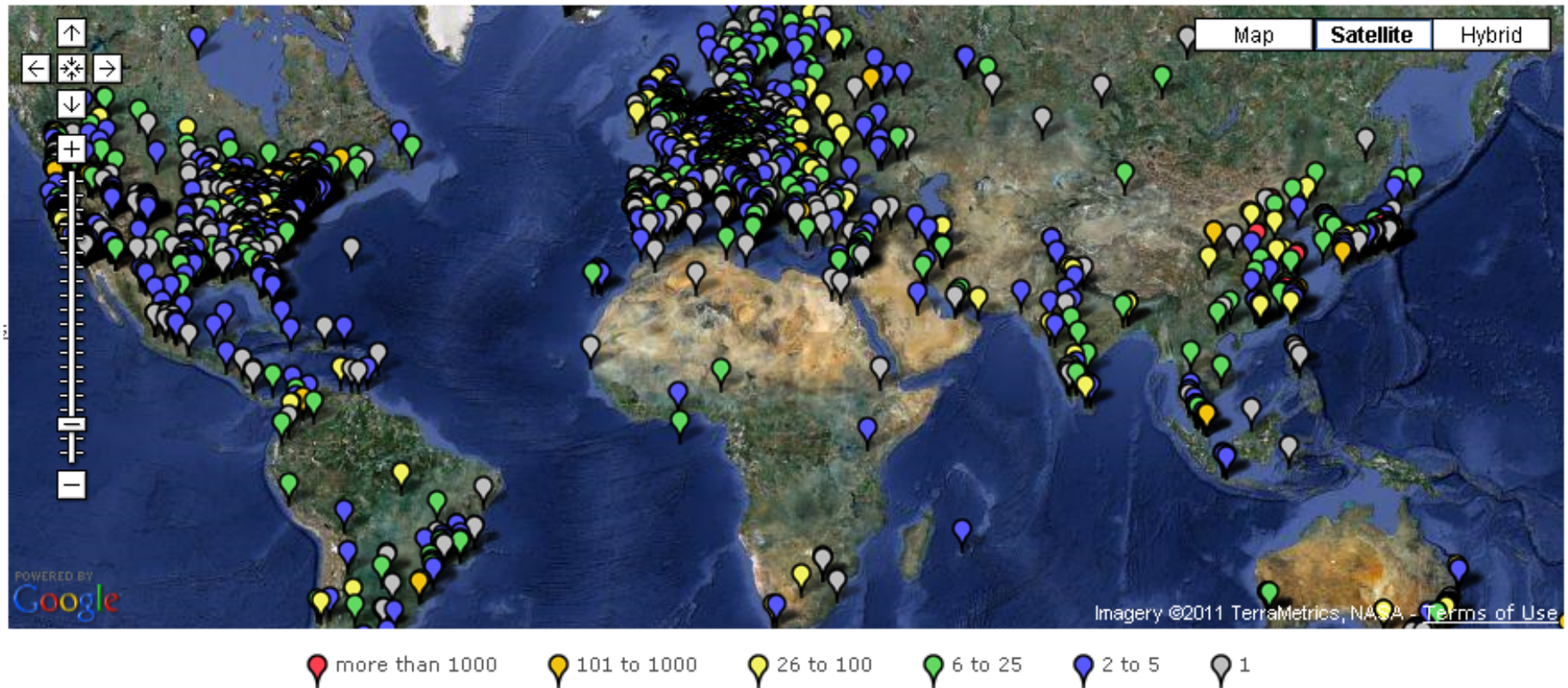
**OpenSim**  
State-of-the-art  
simulation software  
advancing research  
in rehabilitation science

**SEE THE GREAT WORK,  
JOIN THE OPENSIM COMMUNITY  
TO GET STARTED, AND  
FIND THE SUPPORT, EVENTS,  
& RESOURCES YOU NEED  
TO SUCCEED.**

# OpenSim is a worldwide community

**86702 Page Hits in the past 180 Days (9742 Unique Visitors)**

**2345 Stanford Page Hits (81 Unique Visitors)**

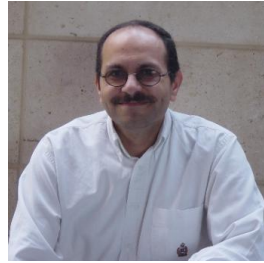




# OpenSim is a team of contributors:



**Scott Delp**



**Ayman Habib**



**Jennifer Hicks**



**Jeff Reinbolt**



**Ajay Seth**



**Michael Sherman**



**Edith Arnold**



**Matt DeMers**



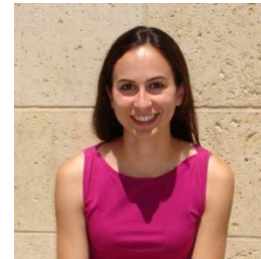
**Sam Hamner**



**Chand John**



**Kat Steele**



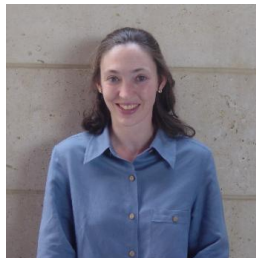
**Melanie Fox**



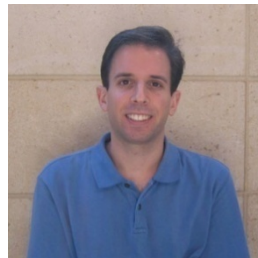
**Peter Eastman**



**Clay Anderson**



**Allison Arnold**



**Eran Guendelman**



**May Liu**



**Peter Loan**



**Darryl Thelen**



**You!**

## **How we hope you will respond:**

- Continue to use OpenSim in your research
- Develop musculoskeletal models and contribute them to the biomechanics community
- Use OpenSim in your teaching and contribute new teaching materials
- Add features to the software and share with others
- Complete our survey so we can improve later workshops



<https://simtk.org/home/opensim>

<http://opensim.stanford.edu>