

Stanford



Jennifer Hicks

Executive Director, Wu Tsai Human Performance Alliance

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BIO

Jennifer Hicks is Executive Director of the Wu Tsai Human Performance Alliance at Stanford, with a focus on collaborative research projects and programs to advance our understanding of the biological principles underlying human performance. Dr. Hicks also serves as the Director of Research for the Mobilize Center, an NIH Biomedical Technology Resource Center at Stanford University and the Restore Center, an NIH-funded center that brings state-of-the-art engineering tools to rehabilitation scientists. Her research is focused on combining biomechanical modeling with statistical and machine learning methods to predict the effects of surgery and other interventions on human movement. She is also using data from mobile phones and other novel sources to understand physical activity and performance. Dr. Hicks also helps run the multi-faceted training and outreach programs of the Human Performance Alliance, the Mobilize Center and the Restore Center. In addition, as the Director of Research and Development for the OpenSim software project, she guides the project's development team and serves as the voice of the software user/researcher.

CURRENT ROLE AT STANFORD

Executive Director, Wu Tsai Human Performance Alliance at Stanford

Director of Research, Mobilize Center

Director of Research, Restore Center

Director Research and Development, OpenSim Project

LINKS

- OpenSim Project: <http://opensim.stanford.edu>
- Mobilize Center: <http://mobilize.stanford.edu>
- Neuromuscular Biomechanics Lab: <http://nmbi.stanford.edu>

Publications

PUBLICATIONS

- **AddBiomechanics: Automating model scaling, inverse kinematics, and inverse dynamics from human motion data through sequential optimization.** *PLoS one*
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