

## Michael John Raitor

Ph.D. Student in Mechanical Engineering, admitted Winter 2019

### Publications

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#### PUBLICATIONS

- **AddBiomechanics: Automating model scaling, inverse kinematics, and inverse dynamics from human motion data through sequential optimization.** *bioRxiv : the preprint server for biology*  
Werling, K., Bianco, N. A., Raitor, M., Stingel, J., Hicks, J. L., Collins, S. H., Delp, S. L., Liu, C. K.  
2023
- **Trajectory and Sway Prediction Towards Fall Prevention.** *IEEE International Conference on Robotics and Automation : ICRA : [proceedings]. IEEE International Conference on Robotics and Automation*  
Wang, W., Raitor, M., Collins, S., Liu, C. K., Kennedy, M.  
2023; 2023: 10483-10489
- **Trajectory and Sway Prediction Towards Fall Prevention**  
Wang, W., Raitor, M., Collins, S., Liu, C., Kennedy, M.  
2023: 10483-10489
- **Estimating Lower Limb Kinematics Using a Reduced Wearable Sensor Count** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*  
Sy, L., Raitor, M., Del Rosario, M., Khamis, H., Kark, L., Lovell, N. H., Redmond, S. J.  
2021; 68 (4): 1293–1304
- **Foster inclusive community** *SCIENCE*  
Raitor, M.  
2020; 367 (6473): 35
- **Making science accessible.** *Science (New York, N.Y.)*  
Tuosto, K. n., Johnston, J. T., Connolly, C. n., Lo, C. n., Sanganyado, E. n., Winter, K. A., Roembke, T. n., Richter, W. E., Isaacson, K. J., Raitor, M. n., Kosanic, A. n., Bessone, L. n., Heim, et al  
2020; 367 (6473): 34–35
- **Bump'em: an Open-Source, Bump-Emulation System for Studying Human Balance and Gait**  
Tan, G., Raitor, M., Collins, S. H., IEEE  
IEEE.2020: 9093-9099
- **HapWRAP: Soft Growing Wearable Haptic Device**  
Agharese, N., Cloyd, T., Blumenschein, L. H., Raitor, M., Hawkes, E. W., Culbertson, H., Okamura, A. M., IEEE  
IEEE COMPUTER SOC.2018: 5466–72
- **Design of a Soft Catheter for Low-Force and Constrained Surgery**  
Slade, P., Gruebele, A., Hammond, Z., Raitor, M., Okamura, A. M., Hawkes, E. W., Bicchi, A., Okamura, A.  
IEEE.2017: 174–80
- **A Dual-Flywheel Ungrounded Haptic Feedback System Provides Single-Axis Moment Pulses for Clear Direction Signals**  
Walker, J. M., Raitor, M., Mallery, A., Culbertson, H., Stolka, P., Okamura, A. M., Choi, S. M., Kuchenbecker, K. J., Gerling, G.  
IEEE.2016: 7–13