

Stanford



Anthony Gatti

Postdoctoral Scholar, Radiology

Bio

INSTITUTE AFFILIATIONS

- Member, Wu Tsai Human Performance Alliance

PROFESSIONAL EDUCATION

- Doctor of Philosophy, McMaster University (2021)
- Master of Science, McMaster University (2015)
- Bachelor of Science, McMaster University (2013)

STANFORD ADVISORS

- Akshay Chaudhari, Postdoctoral Faculty Sponsor

PATENTS

- Anthony Gatti. "United States Patent 11080857 Systems and methods for segmenting an image", NeuralSeg Ltd., Aug 3, 2021

LINKS

- Personal Website: <https://www.anthonygattiphd.com>

Publications

PUBLICATIONS

- **Investigating acute changes in osteoarthritic cartilage by integrating biomechanics and statistical shape models of bone: data from the osteoarthritis initiative.** *Magma (New York, N.Y.)*
Gatti, A. A., Keir, P. J., Noseworthy, M. D., Maly, M. R.
2022
- **Thoracic imaging radiomics for staging lung cancer: a systematic review and radiomic quality assessment** *CLINICAL AND TRANSLATIONAL IMAGING*
Churchill, I. F., Sullivan, K. A., Simone, A. C., Patel, Y. S., Leontiadis, G. I., Farrokhyar, F., Gatti, A. A., Hanna, W. C.
2021
- **An Artificial Intelligence Algorithm to Predict Nodal Metastasis in Lung Cancer.** *The Annals of thoracic surgery*
Churchill, I. F., Gatti, A. A., Hylton, D. A., Sullivan, K. A., Patel, Y. S., Leontiadis, G. I., Farrokhyar, F., Hanna, W. C.
2021
- **Association of Machine Learning-Based Predictions of Medial Knee Contact Force With Cartilage Loss Over 2.5 Years in Knee Osteoarthritis** *ARTHRITIS & RHEUMATOLOGY*
Brisson, N. M., Gatti, A. A., Damm, P., Duda, G. N., Maly, M. R.
2021; 73 (9): 1638-1645

- **Daily cumulative load and body mass index alter knee cartilage response to running in women** *GAIT & POSTURE*
Wilson, E., Gatti, A. A., Keir, P. J., Maly, M. R.
2021; 88: 192-197
- **Automatic knee cartilage and bone segmentation using multi-stage convolutional neural networks: data from the osteoarthritis initiative** *MAGNETIC RESONANCE MATERIALS IN PHYSICS BIOLOGY AND MEDICINE*
Gatti, A. A., Maly, M. R.
2021
- **Equations to Prescribe Bicycle Saddle Height based on Desired Joint Kinematics and Bicycle Geometry** *EUROPEAN JOURNAL OF SPORT SCIENCE*
Gatti, A. A., Keir, P. J., Noseworthy, M. D., Beauchamp, M. K., Maly, M. R.
2021: 1-10
- **A new technique to evaluate the impact of running on knee cartilage deformation by region** *MAGNETIC RESONANCE MATERIALS IN PHYSICS BIOLOGY AND MEDICINE*
Brenneman Wilson, E. C., Gatti, A. A., Maly, M. R.
2021; 34 (4): 593-603
- **Hip and ankle kinematics are the most important predictors of knee joint loading during bicycling** *JOURNAL OF SCIENCE AND MEDICINE IN SPORT*
Gatti, A. A., Keir, P. J., Noseworthy, M. D., Beauchamp, M. K., Maly, M. R.
2021; 24 (1): 98-104
- **How to Optimize Measurement Protocols: An Example of Assessing Measurement Reliability Using Generalizability Theory** *PHYSIOTHERAPY CANADA*
Gatti, A. A., Stratford, P. W., Brisson, N. M., Maly, M. R.
2020; 72 (2): 112-121
- **Association of Pain and Steps Per Day in Persons With Mild-to-Moderate, Symptomatic Knee Osteoarthritis: A Mixed-Effects Models Analysis of Multiple Measurements Over Three Years** *ARTHRITIS CARE & RESEARCH*
Brisson, N. M., Gatti, A. A., Maly, M. R.
2020; 72 (1): 114-121
- **Accuracy of estimates of cumulative load during a confined activity: bicycling.** *International biomechanics*
Gatti, A. A., Maly, M. R.
2019; 6 (1): 66-74
- **Cartilage recovery in runners with and without knee osteoarthritis: A pilot study** *KNEE*
Esculier, J., Jarrett, M., Krowchuk, N. M., Rauscher, A., Wiggermann, V., Taunton, J. E., Wilson, D. R., Gatti, A. A., Hunt, M. A.
2019; 26 (5): 1049-1057
- **Investigating the Test-Retest Reliability and Validity of Hand-Held Dynamometry for Measuring Knee Strength in Older Women with Knee Osteoarthritis** *PHYSIOTHERAPY CANADA*
Chopp-Hurley, J. N., Wiebenga, E. G., Gatti, A. A., Maly, M. R.
2019; 71 (3): 231-238
- **Self-efficacy, pain, and quadriceps capacity at baseline predict changes in mobility performance over 2 years in women with knee osteoarthritis** *CLINICAL RHEUMATOLOGY*
Brisson, N. M., Gatti, A. A., Stratford, P. W., Maly, M. R.
2018; 37 (2): 495-504
- **Acute changes in knee cartilage transverse relaxation time after running and bicycling** *JOURNAL OF BIOMECHANICS*
Gatti, A. A., Noseworthy, M. D., Stratford, P. W., Brenneman, E. C., Totterman, S., Tamez-Pena, J., Maly, M. R.
2017; 53: 171-177
- **GT3X+accelerometer placement affects the reliability of step-counts measured during running and pedal-revolution counts measured during bicycling** *JOURNAL OF SPORTS SCIENCES*
Gatti, A. A., Stratford, P. W., Brenneman, E. C., Maly, M. R.
2016; 34 (12): 1168-1175