

# Meizi Wang

PhD Student

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## ACADEMIC DEGREES

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- 06/2019 M.Sc. in Human Movement Science (Sport Biomechanics)**  
Title of thesis: *Changes of plantar temperature and its relationship with plantar pressure under different temperature conditions*  
Ningbo University, Research Academy of Grand Health, Faculty of Physical Education, Zhejiang, CHN
- 06/2016 B.Sc. in Physical Education**  
Title of thesis: *Factors contributing to obesity in college students*  
Minnan Normal University, Faculty of Physical Education, zhangzhou, Fujian, CHN

## WORKPLACES

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- 2019– Ph.D. student**  
University of Pannonia, Faculty of Engineering, Doctoral School of Chemical Engineering and Material Sciences: Chemical Engineering and Material Sciences

## RESEARCH INTERESTS

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- **Musculoskeletal System, Biomechanics:** Numerical modelling and experiments of human movement; biomechanics mechanism of human lower limbs motion; Musculoskeletal injuries of human lower limbs; Application for a finite model of sport equipment and footwear in human.
- **Bionic Research Based on Animal, Cat:** Construction musculoskeletal model of animal. Simulation of internal stress distributes in animal's paw; Application of animal research in sport equipment and footwear.

## LANGUAGES

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- English: writing, reading, speaking (fluent)
- Chinese: writing, reading, speaking (Native language)

## SOFTWARES

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- Multi-body dynamics: Vicon Nexus software, Visual 3D, Opensim
- Finite element software: Ansys, Abaqus

## **GRANTS, AWARDS, PRIZES**

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### **Awards (undergraduate/graduate)**

**2016-2019** Faculty of Physical Education study scholarship, Ningbo University, China

**2018** National Encouragement scholarship, Ningbo University, China

## **PUBLICATIONS**

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### **Reviewed journal papers with impact factor:**

1. **Wang, M.**, Song, Y., Baker, J. S., Fekete, G., Ugbolue, U. C., Li, S., Gu, Y., The biomechanical characteristics of a feline distal forelimb: a finite element analysis study, *Computers in Biology and Medicine*, Vol. 129, pp. 1-6, 2020. IF (2019): 3.434
2. **Wang, M.**, Baker, J. S., Quan, W., Shen, S., Fekete, G., Gu, Y., A preventive role of exercise across the coronavirus 2 (SARS-CoV-2) pandemic, *Frontiers in physiology*, Vol. 11, pp. 1-8, 2020. IF (2019): 3.367
3. Quan, W., **Wang, M.**, Liu, G., Fekete, G., Baker, J. S., Ren, F., Gu, Y., Comparative Analysis of Lower Limb Kinematics between the Initial and Terminal Phase of 5km Treadmill Running, *Journal of Visualized Experiments*, Vol. 161, pp. 1-10, 2020. IF (2019): 1.163
4. Xu, D., Cen, X., **Wang, M.**, Rong, M., István, B., Baker, J. S., Gu, Y., Temporal Kinematic Differences between Forward and Backward Jump-Landing, *International Journal of Environmental Research and Public Health*, Vol. 17, No. 18, pp. 1-12, 2020. IF (2019): 2.849
5. **Wang, M.**, Song, Y., Valentin, S., Baker, J. S., Gu, Y., Kinetic analysis of felines landing from different heights, *PeerJ*, Vol. 7, pp. 1-12, 2019. IF (2019): 2.379
6. Song, Y., **Wang, M.**, Baker, J. S., Gu, Y., The effect of voluntary head movements on postural kinetics in the standing cat, *PeerJ*, Vol. 7, pp. 1-10, 2019. IF (2019): 2.379
7. **Wang, M.**, Fu, L., Gu, Y., Mei, Q., Fu, F., Fernandez, J., Comparative study of kinematics and muscle activity between elite and amateur table tennis players during topspin loop against backspin movements, *Journal of human kinetics*, Vol. 64, No. 1, pp. 25-33, 2018. IF (2018): 1.414
8. **Wang, M.**, Yan, Z., Fekete, G., Baker, J. S., Gu, Y., The kinematics of the spine and lower limbs on sagittal plane in high-heeled gait, *Journal of Medical Imaging and Health Informatics*, Vol. 8, No. 5, pp. 973-978, 2018. IF (2018): 0.499
9. **Wang, M.**, Gu, Y., Baker, J. S., Analysis of foot kinematics wearing high heels using the Oxford foot model, *Technology and health care*, Vol. 26, No. 5, pp. 815-823, 2018. IF (2018): 0.787
10. Zhang, Y., **Wang, M.**, Awrejcewicz, J., Fekete, G., Ren, F., Gu, Y., Using gold-standard gait analysis methods to assess experience effects on lower-limb mechanics during moderate high-heeled jogging and running, *Journal of Visualized Experiments*, Vol. 127, pp. 1-12, 2017. IF (2017): 1.184