

# Zixiang Gao

Ph.D. student

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## ACADEMIC DEGREES

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- 06/2021**      **M.Sc. in Human movement Science**  
Title of thesis: *The Effect of Running-induced Fatigue on The Symmetry of Lower Limb Biomechanical Parameters in Novice Runners*  
Ningbo University, Research Academy of Grand Health, Faculty of Physical Education, Zhejiang, CHN
- 06/2017**      **B.Sc. in The guidance and management of social sports**  
Title of thesis: *Investigation and countermeasure analysis of leisure sports status of the aged in Xiangyang city*  
Hubei University of Arts and Science, Department of Physical Education, Xiangyang, Hubei, CHN

## WORKPLACES

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- 2021–**      **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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- **Lower limb biomechanics:** Using VICON system to capture kinematic data (hip, knee and ankle) together with a force platform and pressure measurement system (ground reaction force, pressure distribution/center of pressure).
- **Healthy sports equipment:** investigate the effects of different footwear designs on the human body, summarize footwear suitable for the foot's structure, and improve sports performance.

## **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, Mimics, MATLAB, Python.
- Others: Origin, Endnote, SPSS.

## **GRANTS, AWARDS, PRIZES**

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

<b>2021-</b>	Stipendium Hungaricum Scholarship (48 months)
<b>2021</b>	Outstanding Master Students of Zhejiang Province, China
<b>2021</b>	Outstanding Master Students of Ningbo University, China
<b>2020</b>	2 <sup>nd</sup> prize Scholarship of Ningbo University, China
<b>2019</b>	1 <sup>st</sup> prize Scholarship of Ningbo University, China
<b>2019</b>	Bronze Prize of Ningbo Academic Festival, China
<b>2019</b>	Merit student of Ningbo University, China
<b>2018</b>	Outstanding Master Students of Hubei University of Arts and Science, China
<b>2018</b>	2 <sup>nd</sup> prize Scholarship of Ningbo University, China

## **PUBLICATIONS**

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

1. **Gao, Z.,** Mei, Q., Fekete, G., Baker, J.S. and Gu, Y., (2020). The Effect of Prolonged Running on the Symmetry of Biomechanical Variables of the Lower Limb Joints. *Symmetry*, 12(5),1-11. IF: 2.645
2. **Gao, Z.,** Mei, Q., Xiang, L., Gu, Y., (2020). Difference of walking plantar loadings in experienced and novice long-distance runners. *Acta of bioengineering and biomechanics*, 22(3), 127-147. IF: 0.968
3. **Gao, Z.,** Mei, Q., Xiang, L., Baker, J.S., Fernandez, J., & Gu, Y. (2020). Effects of limb dominance on the symmetrical distribution of plantar loading during walking and running *Journal of visualized experiments: Journal of Sports Engineering and Technology*, 1-7. IF: 1.000
4. Mei, Q., Gu, Y., Xiang, L., Yu, P., **Gao, Z.,** Shim, V. and Fernandez, J., (2019). Foot shape and plantar pressure relationships in shod and barefoot populations. *Biomechanics and Modeling in Mechanobiology*, pp.1-14. IF: 2.527

### **Reviewed journal papers:**

1. **Gao, Z.,** Song, Y., Yu, P. M., Zhang, Y., & Li, S. D. (2019). Acute Effects of Different Stretching Techniques on Lower Limb Kinematics, Kinetics and Muscle Activities during Vertical Jump. In *Journal of Biomimetics, Biomaterials and Biomedical Engineering* 40, 1-15. EI (Scopus)
2. Cen, X., Liang, Z., **Gao, Z.,** Lian, W., & Wang, Z. (2019). The Influence of the Improvement of Calf Strength on Barefoot Loading. In *Journal of Biomimetics, Biomaterials and Biomedical Engineering*, 40, 16-25. EI (Scopus)
3. Mei, Q., **Gao, Z.,** Fernandez, J., & Gu, Y. (2019). 3D Foot Shape Modelling Based on Statistical Shape Model. *Journal of Medical Biomechanics*. CSSCI
4. Ling, Z., Cen, X., Lin, C., **Gao, Z.,** Sun, D., Li, J., Gu, Y. (2021). Review on the Research of Sports Training, Sports Monitoring and Medical Monitoring in Bobsleigh/Skeleton Events. *China Sport Science and Technology*. CSSCI.

### **Conference papers in proceedings:**

1. **ZiXiang Gao.** Difference of walking plantar loadings in experienced and novice long-distance runners. The 20th National Conference of Biomechanics in Sports. Taiyuan, China. 2020.
2. **ZiXiang Gao,** Zhiqiang Liang, Yaodong Gu. Research on injury status and risk protection of disabled alpine skiers. The 5th Seminar on Sports Science for Persons with Disabilities, Beijing, China. 2019.
3. **Zixiang Gao.** Research on core strength training methods of the elderly. The 3rd International Forum on Sport and Health. Ningbo, China. 2018.
4. Xuanzhen Cen, Zhiqiang Liang, Chenghui Lin, **Zixiang Gao** & Yaodong Gu. Research and Analysis on Scientific Training of Bobsleigh/ Skeleton Event in the Background of 2022 Beijing Winter Olympic Games. The 11th National Convention on Sports Science. Nanjing, China. 2019.
5. Xiang, L., Mei, Q., Song, Y., **Gao, Z.,** Fernandez, J. W., & Gu, Y. (2020). EFFECTS OF MINIMALIST FOOTWEAR ON THE LOWER LIMB LINEAR ACCELERATION AND ANGULAR VELOCITY DURING RUNNING. *ISBS Proceedings Archive*, 38(1), 72.
6. Peimin Yu Qichang Mei, **Zixiang Gao,** Yanzhang & Yaodong Gu. Dynamic arch index change and lower limb symmetry analysis. The 20th National Conference of Biomechanics in Sports. Taiyuan, China. 2020.