

# Wenjing Quan

## PhD Student

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### ACADEMIC DEGREES

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- 2017/06**      **Master of Physical Education (Sport Biomechanics)**  
Title of thesis: *Numerical Stability Analysis of a Respiratory Control System Model*  
Ningbo University, Research Academy of Grand Health, Faculty of Physical Education China.
- 2013/06**      **Bachelor of Physical Education (Physical Education)**  
Title of dissertation: *Dynamics of Digitally Controlled Unstable Mechanical Systems*  
Binzhou University of physical education, Bianzhou, China

### WORKPLACES

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2020-Ph.D Scholar, researcher  
Faculty of Engineering University of Pannonia, Hungary

### 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).

**Running shoes biomechanics:** To evaluate the risk of musculoskeletal overwork sports injury caused in marathon populations, provide a basis for the prevention of running-related injuries, running teaching, and the design and manufacture of running-related equipment and protective equipment.

### LANGUAGES

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- English: writing, reading, speaking (fluent)
- Chinese: writing, reading, speaking (native)

### SOFTWARES

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- Multi-body dynamics: Vicon Nexus software, Visual 3D, Opensim
- Others: Origin, Matlab

### GRANTS, AWARDS, PRIZES

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Stipends and their results  
2020: Starts PhD work at University of Pannonia via inter-state full scholarship.

### PUBLICATIONS

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#### Reviewed journal papers with impact factor:

1. Quan, W., Wang, M., Liu, G., Fekete, G., Baker, J. S., Ren, F., & Gu, Y. (2020). Comparative Analysis of Lower Limb Kinematics between the Initial and Terminal Phase of 5km Treadmill Running. *J. vis. exp.* IF=1.14
2. Wang, M., Baker, J. S., Quan, W., Shen, S., Fekete, G., & Gu, Y. (2020). A preventive role of exercise across the coronavirus 2 (SARS-CoV-2) pandemic. *Frontiers in physiology*, 11. IF=3.36
3. Quan, W., Ren, F., Sun, D., Fekete, G., & He, Y. (2021). Do Novice Runners Show Greater Changes in Biomechanical Parameters? *Applied Bionics and Biomechanics*, 2021. IF=1.04