

Shen Siqin

Ph.D. student

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ACADEMIC DEGREES

- 03/2020** **M.Sc. in Sports Training**
Title of thesis: *Research of gait biomechanics during walking with bionic flat-bottomed shoes in young females*
Ningbo University, Research Academy of Grand Health, Faculty of Physical Education, Zhejiang, CHN
- 06/2017** **B.Sc. in Physical Education**
Title of thesis: *Metabolomics analysis of moxibustion for sports fatigue recovery -- a case study of orienteering team*
Jinzhong University, Faculty of Physical Education, Jinzhong, Shanxi, CHN

WORKPLACES

- 2020–** **Ph.D. student**
University of Pannonia, Faculty of Engineering, Doctoral School of Chemical Engineering and Material Sciences: Chemical Engineering and Material Sciences

RESEARCH INTERESTS

- **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
- Others: Origin, Endnote

GRANTS, AWARDS, PRIZES

Awards (undergraduate/graduate)

2020-2020	Stipendium Hungaricum Scholarship (48 months) Outstanding Master Students of Ningbo University, China
2019	Advanced Individual of Social practice of Ningbo University, China
2019	Poszter tagozat szekcióban The 20 th Scientific Student Conference on Technical Sciences, Romania
2019	2 nd prize Scholarship of Ningbo University, China
2018	1 st prize Scholarship of Ningbo University, China
2016	Merit student of Jinzhong University, China
2016	Pexpertmaker to Merit Student of Jinzhong University, China
2016	National Encouragement Scholarship of Undergraduate Students, China
2015	National Scholarship of Undergraduate Students, China

PUBLICATIONS

Reviewed journal papers with impact factor:

1. Zhang, Y., Awrejcewicz, J., Szymanowska, O., **Shen, S.**, Zhao, X., Baker, J. S., & Gu, Y. (2018). Effects of severe hallux valgus on metatarsal stress and the metatarsophalangeal loading during balanced standing: A finite element analysis. *Computers in Biology and Medicine*, 97, 1-7. IF: 2.286
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: 3.201

Reviewed journal papers:

1. **Shen, S. Q.**, He, Y. Q., Zhang, Y., Fekete, G., & Zhou, Z. X. (2020). Biomechanical Analysis of Long Distance Running on Different Sports Surfaces. In *Journal of Biomimetics, Biomaterials and Biomedical Engineering* (Vol. 45, pp. 31-39). Trans Tech Publications Ltd.
2. Li, K., **Shen, S. Q.**, Teo, E. C., & Liang, M. J. (2020). Bionic Footwear Effect to Lower Limb Locomotion in Biomechanical Analysis. In *Journal of Biomimetics, Biomaterials and Biomedical Engineering* (Vol. 47, pp. 105-115). Trans Tech Publications Ltd.
3. Zhang, Y. Y., **Shen, S. Q.**, Baker, J. S., & Gu, Y. D. (2018). Effects of different hardness in bionic soles on lower limb biomechanics. In *Journal of Biomimetics, Biomaterials and Biomedical Engineering* (Vol. 39, pp. 1-12). Trans Tech Publications Ltd.

Conference papers in proceedings:

1. **Shen Siqin**, Gu Yaodong. Kinematics Analysis of Long Distance Running on Different Sports Surfaces. The 11th China Sports Science Congress, Nanjing, China 2019, 5022-5023.
2. **Shen Siqin**. Lower limb biomechanics during walking with bionic high-heeled shoes in young females[C]. Sports biomechanics branch of Chinese sports science association. Abstracts of the 20th Chinese sports biomechanics academic conference, 2018:146-147.
3. Zhou, H., **Shen, S.**, & Gu, Y. . (2018). Loading Posture Control in Anterior and Posterior Positions Using SEBT. 2017 International Conference Advanced Engineering and Technology Research (AETR 2017).

Patents:

1. **Shen Siqin**, Gu Yaodong. A kind of swimming pool [P]. CN209686938U, 2019-11-26.