

## Curriculum Vitae

Michal Struška



### Personal info:

Date of birth: 1993/08/14

Place of birth: Zlín

Nationality: Czech

Citizenship: Czech Republic

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### Education

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| Since 2018 | PhD study of Anthropology and Human Genetics at the Faculty of Science at Charles University   |
| 2016–2018  | Master's degree in Anthropology and Human Genetics at the Faculty of Science at Charles University<br>Diploma thesis: Reconstruction of the influence of grinding technology on upper limb muscle activity |
| 2013–2016  | Bachelor's degree in Ecological and Evolutionary Biology at the Faculty of Science at Charles University<br>Bachelor thesis: Throwing ability in human evolution   |

### Research focus

Retrospective anthropology, human ecology

Human thermoregulation

Upper limb biomechanics

Lower limb biomechanics during locomotion

### Scientific and technical skills

Knowledge in topics of anatomy and biological anthropology, experience with measuring skin temperature and intestinal temperature, experience with indirect calorimetry, ability to apply basic statistical methods.

**IT skills:** Use of Microsoft office programs, data analysis using Python and statistical analyses in R, experience with desktop app programming using C++ and Qt, experience with videogame development using Unity with C#, experience with web development using Django framework, HTML, and CSS.

**Languages:** English, Czech.

**Study awards:**

Master's degree: stipend for study results (2017/2018)

Bachelor's degree: stipend for study results (2015/2016)

**Experience with collecting data:**

Since 2019	Measuring energy consumption and body temperature during endurance running.
2019	Measuring electromyography data of the lower limb during walking.
2017	Measuring electromyography data of the upper limb during the reconstruction of cereal grinding.

**Participation in an archaeological excavation:**

2016–2017	Všeruby – Excavations of a burial site near Pilsen, Czech Republic.
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**Teaching:**

Since 2020	Anthropology (Course for bachelor's students; 10 %)
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Since 2019	Anthropology for teachers (Course for bachelor's students; 10 %)
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**Funding:**

2022–2025: GAUK (324522) Influence of proportions, skin temperature, and movement velocity of body segments on heat dissipation during endurance hunting. Principal investigator; co-investigators: Vladimír Sládek (supervisor), Martin Hora, Pavla Alexia Jarešová, Vojtěch Mařík.

**Conference presentations:**

**Struška M.**, Hora M., Wall-Scheffler C., Sládek V., (2024). The effect of ambient temperature on ultra-marathon performance in males and females. The 93rd Annual Meeting of the American Association of Biological Anthropologists, Los Angeles, California, March 20–23, 2024. Poster symposium presentation.

**Struška M.**, Jarešová P. A., Hora M., Michálek T., Wall-Scheffler C., Sládek V., (2023). Impact of lower limb length on human core temperature during endurance running. The 13th Annual Meeting of the European Society for the Study of Human Evolution, Aarhus, Denmark, September 21–22, 2023. Podium presentation (Pecha Kucha).

**Struška M.**, Hora M., Sládek V. Comparison of eight- and four-muscle model for assessment of upper limb muscle activity during cereal grinding. The 84th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, Ohio, USA, March 27–30, 2019. Poster presentation.

**Articles in journals with the impact factor:**

**Struška, M.**, Jarešová, P.A., Hora, M., Wall-Scheffler, C., Michálek, T., Sládek, V. (2024). Impact of relative lower-limb length on heat loss and body temperature during running. *American Journal of Biological Anthropology*, e25036.

Hora, M., **Struška, M.**, Matějovská, Z., Kubový, P., Sládek, V. (2023). Muscle activity during crouched walking. *American Journal of Biological Anthropology*, 183, 79–91.

Hora M., Pontzer H., **Struška M.**, Entin P., Sládek V., 2022. Comparing walking and running in persistence hunting. *Journal of Human Evolution*. 172, 103247.

**Struška M.**, Hora M., Rocek T.R., Sládek V., 2021. Influence of upper limb training and analyzed muscles on estimate of physical activity during cereal grinding using saddle quern and rotary quern. *PLOS ONE*. 16, e0243669.