



Auxological Society



## ***8<sup>th</sup> International Student Summer School 2025***

***“Human Growth – Data Analyses and Statistics”***

***Potsdam – Gülpe, Germany, from Friday, July 4<sup>th</sup>, to Saturday, July 12<sup>th</sup> 2025***

**Application – Deadline 15.4.2025**

### **The Summer School includes**

1. A get together on Friday evening
2. a “retreat working week” at Gülpe (Saturday morning to Friday evening) in the middle of nowhere (52.7335°N, 12.2115°E), with both intensive work and cheerful social activity
3. Soiree on Friday evening- final presentation
4. after breakfast on Saturday, July 12th 2025 transfer back to Potsdam
5. instructions for a relaxed weekend in Potsdam or Berlin

### **We expect that**

1. every participant brings her/his own (modern as well as historical) data from her/his home university to be analyzed during the Summer School in cooperation with the other participants and teachers
2. every participant presents the analysis of her/his data at the final seminar (Soiree) on Wednesday afternoon
3. every participant prepares a manuscript to be published open access in a peer-reviewed international journal within the next 6 months (see below the publication list from former International Student Summer Schools)
4. every participant should read the book “Auxology– Studying Human Growth and Development” (<http://www.schweizerbart.de/9783510652785>) before

The number of participants is limited to 12. If you are interested, please send your application as soon as possible, but **not later than April 15<sup>th</sup> 2025** to

**PD Dr. Christiane Scheffler, University of Potsdam, Human Biology**

[christiane.scheffler@uni-potsdam.de](mailto:christiane.scheffler@uni-potsdam.de)

The application includes a short curriculum vitae, your publication list, your motivation, and a short description of your data set that is being analyzed during the retreat working week.

### Special information

**Where:** Potsdam and Ecological Station of Potsdam University in Gülpe (65 km west of Berlin in the “emptiness”)

**When:** Friday 4.7.2025 at Potsdam University/Gülpe until final breakfast on Saturday 12.7.2025 in Gülpe

**Who:** Master-, PhD-Students or PostDocs in Physical Anthropology, Human Biology, Biostatistics or from related subjects.

**Participant fee:** 680. - €

The fee includes accommodation in a youth hostel the night before, accommodation and food during the stay at the Ecological Station of Potsdam University, the transfer from Potsdam to Gülpe, and the fee for open access publication.

If you need help for accommodation before and after the retreat, we will be happy to support you. Please let us know in time.



### Conditions for Participants:

You need cheerfulness, your own data set, your own notebook, a linen, a sleeping bag, and if you like swimming in the river Havel, a swimsuit. If you are interested in watching birds, please bring a binocular.

See also: <https://www.human-biology-and-public-health.org/index.php/hbph/summerschool>



**Publication list of the last *International Summer schools*. Some publications from 2023 and the publications from 2024 are in the pipeline.**

**Summer school 2023**

Editorial - 6th International Student Summer School on "Human Growth: Data Analyses and Statistics". Scheffler, C., Hermanussen, M., & Groth, D. (2024). . *Human Biology and Public Health*, 1. doi: 10.52905/hbph2024.1.83

Improving ramification detection of St. Nicolas House Analysis –A combination approach. Chen, S., Moris, C., Groth, D. (2024) *Human Biology and Public Health* 1. doi:10.52905/hbph2024.1.81

Secular trends in anthropometric characteristics and their associations with external skeletal robustness among Slovenian young adults' population, Zdešar Kotnik, K., Golja, P., Robič Pikel, T. (2024). *Human Biology and Public Health* 1. doi:10.52905/hbph2024.1.7

Dissociated development of growth and skeletal robustness, and motor skills of preschool children Delor C, Scheffler Ch, Hermanussen M (2024). *Human Biology and Public Health* 2. doi.org/10.52905/hbph2024.2.8

Transcending borders: anthropometric insights and body image among Turkish immigrants in Germany and the Netherlands, Baran K, Özer B, Hermanussen M, Groth D, Scheffler, Ch. (2024). *Human Biology and Public Health* 2. doi.org/10.52905/hbph2024.2.87

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**Summer school 2022**

Human growth data analysis and statistics – the 5th Gülpe International Student Summer School. Groth, D., Scheffler, C., & Hermanussen, M. (2023). *Human Biology and Public Health*, 1. doi:10.52905/hbph2023.1.70

Assessing the applicability of changepoint analysis to analyse short-term growth. Gasparatos, N., Scheffler, C., & Hermanussen, M. (2023). *Human Biology and Public Health* 1. doi:10.52905/hbph2023.1.62.

In Python available: St. Nicolas House Algorithm (SNHA) with bootstrap support for improved performance in dense networks. Hake, T., Bodenberger, B., & Groth, D. (2023). *Human Biology and Public Health* 1. doi:10.52905/hbph2023.1.63.

No association between anthropometry and IQ in Czech preschool children. Malambo, C. & Musálek, M. (2023). *Human Biology and Public Health* 1. doi:10.52905/hbph2023.1.65.

No evidence of growth impairment after forced migration in Polish school children after World War II. Rösler, A., Scheffler, C. & Hermanussen, M. (2023). *Human Biology and Public Health* 1. doi:10.52905/hbph2023.1.68.

The association between linear enamel hypoplasia, cribra orbitalia and porotic hyperostosis in a South African skeletal sample. Marais, C.; de Lange, J.M.; Walters J. & Alblas, A. (2023) *Human Biology and Public Health* 2. doi:10.52905/hbph2023.2.71.

Signs of childhood physiological stresses in a South African human skeletal collection. de Lange, J.M., Alblas, A.; Nel, M. & Marais, C. (2023) *Human Biology and Public Health* 2. doi:10.52905/hbph2023.2.66.

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### **Summer school 2021**

Human growth data analyses and statistics: The 4th Gülpe International Student Summer School. Hermanussen, M., Groth, D., & Scheffler, C. (2022). *Human Biology and Public Health*, 3. doi:10.52905/hbph2021.3.29

The Social status influences human growth: A summary and analysis of historical data from German school girls in 1914 with comparison to modern references. Wilke, L., Boeker, S., Mumm, R., & Groth, D. (2022). *Human Biology and Public Health*, 3. doi:10.52905/hbph2021.3.22

Network reconstruction based on synthetic data generated by a Monte Carlo approach. Novine, M., Mattsson, C. C., & Groth, D. (2022). *Human Biology and Public Health*, 3. doi:10.52905/hbph2021.3.26

The dilemma of misclassifying weight in short and in historic population. Mumm, R., & Hermanussen, M. (2022). *Human Biology and Public Health*, 3. doi:10.52905/hbph2021.3.28

Correlation between childhood episodes of stress and long bone-ratios in samples of medieval skeletons - using linear enamel hypoplasia as proxy. Cecilie Cordua Mattsson, *Human Biology and Public Health*, 3 (2022), doi:10.52905/hbph2021.3.23

Dental age is an independent marker of biological age. Boeker, S., Hermanussen, M., & Scheffler, C. (2022). *Human Biology and Public Health*, 3. doi:10.52905/hbph2021.3.24

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### **Summer school 2019**

Statistical Approaches to Developmental and Growth Data of Children and Adolescents - an editorial to student research conducted during the 3rd International Student Summer School, July 2019, Potsdam and Gülpe, Germany Hermanussen M, Groth D, Scheffler C.. *Anthropol Anz.* 2020 Aug 26;77(5):355-357. doi: 10.1127/anthranz/2020/1302

Traumatized women's infants are bigger than children of mothers without traumas. Apanasewicz A, Groth D, Scheffler C, Hermanussen M, Piosek M, Wychowaniec P, Babiszewska M, Barbarska O, Ziomkiewicz A. *Anthropol Anz.* 2020 Aug 26;77(5):359-374. doi: 10.1127/anthranz/2020/1285

The end of the secular trend in Norway: spatial trends in body height of Norwegian conscripts in the 19th, 20th and 21st century. Rybak A, Bents D, Krüger J, Groth D. *Anthropol Anz.* 2020 Jun 26;77(5):415-421. doi: 10.1127/anthranz/2020/1254

Decrease of external skeletal robustness (Frame Index) between two cohorts of school children living in Puerto Madryn, Argentina at the beginning of the 21st century. Navazo B, Oyhenart E, Dahinten S, Mumm R, Scheffler C. *Anthropol Anz.* 2020 May 27;77(5):405-413. doi: 10.1127/anthranz/2020/1182

Environmental stimulation on height: The story from Indonesia. Hasibuan SN, Pulungan A, Scheffler C, Groth D, Hermanussen M. *Anthropol Anz.* 2020 May 27;77(5):423-429. doi: 10.1127/anthranz/2020/1209

Plasticity of human growth - a systematic review on psychosocial factors influencing growth. Niere O, Spannemann L, Stenzel P, Bogin B, Hermanussen M, Scheffler C. *Anthropol Anz.* 2020 May 20. doi: 10.1127/anthranz/2020/1223

No correlation between short term weight gain and lower leg length gain in healthy German children.

Maqsood A, Naumenko DJ, Hermanussen M, Scheffler C, Groth D. *Anthropol Anz.* 2020 May 20. doi: 10.1127/anthranz/2020/1237

Association of anthropometric indices of nutritional status with growth in height among Limboo children of Sikkim, India Dorjee B, Bogin B, Scheffler C, Groth D, Sen J, Hermanussen M.. *Anthropol Anz.* 2020 May 13;77(5):389-398. doi: 10.1127/anthranz/2020/1174

Positive influence of parental education on growth of children - statistical analysis of correlation between social and nutritional factors on children's height using the St. Nicolas House Analysis. Martin L, Dorjee B, Groth D, Scheffler C. *Anthropol Anz.* 2020 May 13;77(5):375-387. doi: 10.1127/anthranz/2020/1177

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## **Summer school 2018**

Student work on trends in infant and child growth - an editorial. Hermanussen M, Scheffler C, Groth D, Bogin B. *Anthropol Anz.* 2019 Aug 15. doi: 10.1127/anthranz/2019/1052.

Influence of network properties on a migration induced secular height trend by Monte Carlo simulation. Fritz A, Makeyeva A, Staub K, Groth D. *Anthropol Anz.* 2019 Jul 26. doi: 10.1127/anthranz/2019/1032.

Lack of evidence of nutritional influence on height in four low and middle-income countries. Mumm R, Scheffler C. *Anthropol Anz.* 2019 Jun 3. doi: 10.1127/anthranz/2019/0988.

Popular ideas and convictions about factors influencing the growth as well as the adult height of children: a German-French comparison. Friebel F, Hermanussen M, Scheffler C. *Anthropol Anz.* 2019 Apr 17. doi: 10.1127/anthranz/2019/0972.

The network effects on conscripts' height in the central provinces of Russian empire in the middle of XIX century - at the beginning of XX century. Lebedeva L, Groth D, Hermanussen M, Scheffler C, Godina E. *Anthropol Anz.* 2019 Apr 17. doi: 10.1127/anthranz/2019/0984.

Body height in stunted Indonesian children depends directly on parental education and not via a nutrition mediated pathway - Evidence from tracing association chains by St. Nicolas House Analysis. Groth D, Scheffler C, Hermanussen M. *Anthropol Anz.* 2019 Apr 15. doi: 10.1127/anthranz/2019/1027.

Reference tables with centiles of limb to body height ratios of healthy human adults for assessing potential thalidomide embryopathy. Reimann A, Beyer R, Mumm R, Scheffler C. *Anthropol Anz.* 2019 Mar 14. doi: 10.1127/anthranz/2019/0981.

Influence of the A/T polymorphism of the *FTO* gene and sport specializations on the body composition of young Russian athletes. Parfenteva OI, Groth D, Scheffler C, Zaharova MF. *Anthropol Anz.* 2019 Mar 13. doi: 10.1127/anthranz/2019/0943.

Indirect evidence for biological mortality bias in growth from two temporo-spatially distant samples of children. Spake L, Cardoso HFV. *Anthropol Anz.* 2019 Feb 28. doi: 10.1127/anthranz/2019/0957.

The association between socioeconomic status, duration of breastfeeding, parental age and birth parameters with BMI, body fat and muscle mass among prepubertal children in Poland. Pruszkowska-Przybylska P, Sitek A, Rosset I, Źądzińska E, Sobalska-Kwapis M, Słomka M, Strapagiel D. *Anthropol Anz.* 2019 Feb 28. doi: 10.1127/anthranz/2019/0955.

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## **Summer school 2017**

Editorial Perceiving stunting - Student research and the "Lieschen Müller effect" in nutrition science. Hermanussen M, Scheffler C, Groth D, Bogin B. *Anthropol Anz.* 2018 Jun 11;74(5):355-358. doi: 10.1127/anthranz/2018/0858.

Body height, social dominance and the political climate - a comment. Liu YC, Groth D. *Anthropol Anz.* 2018 Jun 11;74(5):445-450. doi: 10.1127/anthranz/2018/0855.

Osseous Frame Index calculations of the early medieval South-West Germany. Jasch I, Langer A, Boley M, Mumm R, Riesenber M, Mann R, Wahl J. *Anthropol Anz.* 2018 Jun 11;74(5):431-443. doi: 10.1127/anthranz/2018/0822.

The secular trend and network effects on height of male Japanese students from 1955 to 2015. Bents D, Groth D, Satake T. *Anthropol Anz.* 2018 Jun 11;74(5):423-429. doi: 10.1127/anthranz/2018/0838.

Supplementation of vitamin D after birth affects body size and BMI in Polish children during the first 3.5 years of life - an analysis based on two cohorts measured in the years 1993-1997 and 2004-2008. Pruszkowska-Przybylska P, Nieczuja-Dwojacka J, Żądzińska E. *Anthropol Anz.* 2018 Jun 11;74(5):413-421. doi: 10.1127/anthranz/2018/0823

Anthropometric assessment of school children in Khartoum Locality, Khartoum State, Sudan - 2014/2015. Elrayah EE, Balla SA, Ahmed HA. *Anthropol Anz.* 2018 Jun 11;74(5):393-401. doi: 10.1127/anthranz/2018/0830.

No association between fat tissue and height in 5019 children and adolescents, measured between 1982 and in 2011 in Kolkata/India. Scheffler C, Krützfeldt LM, Dasgupta P, Hermanussen M. *Anthropol Anz.* 2018 Jun 11;74(5):403-411. doi: 10.1127/anthranz/2018/0827.

Growth prediction of small for gestational age infants within the first weeks after birth. Beger C, Merker A, Mumm R, Gausche R. *Anthropol Anz.* 2018 Jun 11;74(5):377-382. doi: 10.1127/anthranz/2018/0820.

External skeletal robusticity of children and adolescents - European references from birth to adulthood and international comparisons. Mumm R, Godina E, Koziel S, Musalek M, Sedlak P, Wittwer-Backofen U, Hesse V, Dasgupta P, Henneberg M, Scheffler C. *Anthropol Anz.* 2018 Jun 11;74(5):383-391. doi: 10.1127/anthranz/2018/0826.

Affinity to host population stimulates physical growth in adult offspring of Turkish migrants in Germany. Özer A, Scheffler C. *Anthropol Anz.* 2018 Jun 11;74(5):359-364. doi: 10.1127/anthranz/2018/0825.

As tall as my peers - similarity in body height between migrants and hosts. Bogin B, Hermanussen M, Scheffler C. *Anthropol Anz.* 2018 Jun 11;74(5):365-376. doi: 10.1127/anthranz/2018/0828.