

Resource Summary Report

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geomorph

RRID:SCR_016482

Type: Tool

Proper Citation

geomorph (RRID:SCR_016482)

Resource Information

URL: <https://cran.r-project.org/web/packages/geomorph/index.html>

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Description: Software package for performing all stages of geometric morphometric shape analysis of landmark points and curves in 2-and-3-dimensions as well as 3D surfaces in the R statistical computing environment.

Abbreviations: geomorph

Synonyms: geometric morphometric

Resource Type: data analysis software, data processing software, software application, software resource, software toolkit

Keywords: geometric, morphometric, shape, analysis, landmark, point, curve, 2D, 3D, surface

Availability: Free, Available for download, Freely available

Resource Name: geomorph

Resource ID: SCR_016482

Alternate URLs: <https://github.com/geomorphR/geomorph>

License: GPL

Record Creation Time: 20220129T080330+0000

Record Last Update: 20260905T133007+0000

Ratings and Alerts

No rating or validation information has been found for geomorph.

No alerts have been found for geomorph.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 35 mentions in open access literature.

Listed below are recent publications. The full list is available at [Kravitz](#) .

Agostini-Walesch G, et al. (2026) Sex-dependent alterations of the femoral geometry in a mouse model of Marfan syndrome. JBMR plus, 10(6), zia072.

Suliman MA, et al. (2026) Unsupervised multimodal surface registration with geometric deep learning. Medical image analysis, 107(Pt B), 103821.

Ashbaugh AJ, et al. (2026) You Should Look a Gift Ungulate in the Mouth: Using 2D Occlusal Cheek Tooth Morphology to Study the Evolution of Molarization in Ungulates. Integrative organismal biology (Oxford, England), 8(1), obag025.

Tseng ZJ, et al. (2025) Emergent network properties link phenotypic modules to ecomorphological divergence in carnivoran mammals. iScience, 28(2), 111828.

De Leo N, et al. (2025) Protocol for 3D photogrammetry and morphological digitization of complex skulls. STAR protocols, 6(1), 103572.

Jiangzuo Q, et al. (2025) Insights on the evolution and adaptation toward high-altitude and cold environments in the snow leopard lineage. Science advances, 11(3), eadp5243.

Maidin MBM, et al. (2025) Association of keel bone morphometry with keel bone damage and skeletal quality in the laying hen. British poultry science, 66(2), 166.

de Abreu E Melo-Moreira D, et al. (2025) The Evolution of Skull Shape in Boana faber Clade: Unraveling Heterochrony's Influence. Evolution & development, 27(2), e70008.

Miller CA, et al. (2025) Early life functional transitions impact craniofacial morphology in osteogenesis imperfecta. Anatomical record (Hoboken, N.J. : 2007), 308(12), 3157.

Troyer EM, et al. (2025) Macroevolutionary role reversals in the earliest radiation of bony fishes. Current biology : CB.

Matamoro-Vidal A, et al. (2024) Patterned apoptosis has an instructive role for local growth and tissue shape regulation in a fast-growing epithelium. Current biology : CB, 34(2), 376.

Tanner SB, et al. (2024) Variation and covariation of external shape and cross-sectional geometry in the human metacarpus. *American journal of biological anthropology*, 183(2), e24866.

Žikić V, et al. (2024) Effect of γ -cypermethrin and pirimiphos-methyl on wing morphology of *Tribolium castaneum* (Herbst) and *T. confusum* Jacquelin du Val: a comparative study. *Environmental science and pollution research international*, 31(1), 895.

Figus C, et al. (2023) Morphologies in-between: The impact of the first steps on the human talus. *Anatomical record* (Hoboken, N.J. : 2007), 306(1), 124.

Figueirido B, et al. (2023) Elbow-joint morphology in the North American 'cheetah-like' cat *Miracinonyx trumani*. *Biology letters*, 19(1), 20220483.

Thomas OO, et al. (2023) Automated morphological phenotyping using learned shape descriptors and functional maps: A novel approach to geometric morphometrics. *PLoS computational biology*, 19(1), e1009061.

Bobé R, et al. (2023) The first Miocene fossils from coastal woodlands in the southern East African Rift. *iScience*, 26(9), 107644.

Lugli F, et al. (2022) Tracing the mobility of a Late Epigravettian (~ 13 ka) male infant from Grotte di Pradis (Northeastern Italian Prealps) at high-temporal resolution. *Scientific reports*, 12(1), 8104.

Duchon A, et al. (2022) Ts66Yah, a mouse model of Down syndrome with improved construct and face validity. *Disease models & mechanisms*, 15(12).

Bronzati M, et al. (2021) Deep evolutionary diversification of semicircular canals in archosaurs. *Current biology : CB*, 31(12), 2520.