

# Thomas A. Püschel

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Post-Doctoral Research Assistant, Ecology and Evolutionary Biology, University of Reading  
School of Biological Sciences · Philip Lyle Building, RG6 6BX · Reading, UK

✉ [t.a.puschel@reading.ac.uk](mailto:t.a.puschel@reading.ac.uk) 🌐 [thomaspuschel.com](https://thomaspuschel.com) | Updated: Apr. 30, 2021

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## Education

*University of Manchester*, PhD. Adaptive Organismal Biology 2014-2018  
*Hull York Medical School*, MSc. Human Evolution with Distinction 2012-2013  
*Universidad de Chile*, BSc. Biological Anthropology 2007-2011

## Work experience

*School of Biological Sciences, University of Reading, UK*  
Post-Doctoral Research Assistant - Ecology and Evolutionary Biology 2021-Present  
*School of Anthropology and Museum Ethnography, University of Oxford, UK*  
Postdoctoral Research Officer - Leverhulme Early Career Fellowship 2018-2021  
*St Antony's College, Oxford, UK*  
College advisor 2018-2021  
*University of Manchester, UK*  
Research Officer 2017-2018

## Scholarships

1. *Becas Chile PhD scholarship* (2014-2018), National Commission for Scientific and Technological Research of Chile. 2014-2018
2. *Becas Chile Master scholarship* (2012-2013), National Commission for Scientific and Technological Research of Chile. 2012-2013
3. *ECOS-CONICYT scholarship* for an Internship at the Musée de l'Homme, Muséum d'Histoire Naturelle, Paris. 2012

## Grants and awards

1. *SYNTHEsis+ Transnational Access (BE-TAF-8207)* grant for access to the Royal Museum for Central Africa, Tervuren, Belgium. 2020
2. *SAME, University of Oxford Award for Excellence 2020*. Award for Excellence of the School of Anthropology and Museum Ethnography, University of Oxford in recognition of my exceptional contribution to the department. 2020
3. *The Boise Trust Fund Research Award*. Research fund awarded by the Department of Zoology of the University of Oxford. 2019
4. *The Boise Trust Fund Research Award*. Research fund awarded by the Department of Zoology of the University of Oxford. 2018

5. *Leverhulme Early Career Fellowship (ECF-2018-264)*. Postdoctoral fellowship. 2018-2021
6. *SYNTHESYS+ Transnational Access (BE-TAF-4459)* grant for access to the Royal Museum for Central Africa, Tervuren, Belgium. 2015

## Peer-reviewed publications

### JOURNAL ARTICLES

1. Püschel, H. P., Bertrand, O. C., O'Reilly, J. E., Bobe, R., & Püschel, T. A. (2021). [Divergence-time estimates for hominins provide insight into encephalization and body mass trends in human evolution](#). *Nature Ecology & Evolution*, 1–12.
2. Bucchi, A., Püschel, T. A., Lorenzo, C., & Marcé-Nogué, J. (2020). [Finite element analysis of the proximal phalanx of the thumb in Hominoidea during simulated stone tool use](#). *Comptes Rendus Palevol*, 19(2), 26–39.
3. Püschel, T. A., Marcé-Nogué, J., Gladman, J., Patel, B. A., Almécija, S., & Sellers, W. I. (2020). [Getting its feet on the ground: Elucidating Paralouatta's semi-terrestriality using the virtual morpho-functional toolbox](#). *Frontiers in Earth Science*, 8.
4. Marcé-Nogué, J., Püschel, T. A., Daasch, A., & Kaiser, T. M. (2020). [Broad-scale morpho-functional traits of the mandible suggest no hard food adaptation in the hominin lineage](#). *Scientific Reports*, 10(1), 1–11.
5. Püschel, T. A., Marcé-Nogué, J., Chamberlain, A. T., Yoxall, A., & Sellers, W. I. (2020). [The biomechanical importance of the scaphoid-centrale fusion during simulated knuckle-walking and its implications for human locomotor evolution](#). *Scientific Reports*, 10(1), 1–7.
6. Püschel, T. A., Friess, M., & Manríquez, G. (2020). [Morphological consequences of artificial cranial deformation: Modularity and integration](#). *PLOS ONE*, 15(1), e0227362.
7. Püschel, T. A., Marcé-Nogué, J., Gladman, J. T., Bobe, R., & Sellers, W. I. (2018). [Inferring locomotor behaviours in Miocene New World monkeys using finite element analysis, geometric morphometrics and machine-learning classification techniques applied to talar morphology](#). *Journal of The Royal Society Interface*, 15(146), 20180520.
8. Benítez, H. A., Lemic, D., Püschel, T. A., Virić Gašparić, H., Kos, T., Barić, B., Pajač Živković, I. (2018). [Fluctuating asymmetry indicates levels of disturbance between agricultural productions: An example in Croatian population of \*Pterostichus melas melas\* \(Coleoptera: Carabidae\)](#). *Zoologischer Anzeiger*, 276, 42–49.
9. Püschel, T. A., Marcé-Nogué, J., Kaiser, T. M., Brocklehurst, R. J., & Sellers, W. I. (n.d.). [Analyzing the sclerocarpy adaptations of the Pitheciidae mandible](#). *American Journal of Primatology*, 0(0), e22759.
10. Püschel, T. A., Gladman, J. T., Bobe, R., & Sellers, W. I. (2017). [The evolution of the platyrrhine talus: A comparative analysis of the phenetic affinities of the Miocene platyrrhines with their modern relatives](#). *Journal of Human Evolution*, 111, 179–201.
11. Marcé-Nogué, J., Püschel, T. A., & Kaiser, T. M. (2017). [A biomechanical approach to understand the ecomorphological relationship between primate mandibles and diet](#). *Scientific Reports*, 7(1), 8364.

12. Püschel, H. P., **Püschel, T. A.**, & Rubilar-Rogers, D. (2017). [Taxonomic Comments of a Glossotherium Specimen from the Pleistocene of Central Chile](#). *Boletín Del Museo Nacional de Historia Natural, Chile*, 66(2), 223–262.
13. Marcé-Nogué, J., Esteban-Trivigno, S. D., **Püschel, T. A.**, & Fortuny, J. (2017). [The intervals method: A new approach to analyse finite element outputs using multivariate statistics](#). *PeerJ*, 5, e3793.
14. **Püschel, T. A.**, & Sellers, W. I. (2016). [Standing on the shoulders of apes: Analyzing the form and function of the hominoid scapula using geometric morphometrics and finite element analysis](#). *American Journal of Physical Anthropology*, 159(2), 325–341.
15. Bucchi, A., **Püschel, T. A.**, & Manríquez, G. (2016). [Artificial Cranial Modification in San Pedro de Atacama and the Loa Basin: A Quantitative Approach to Its Role as a Marker of Social Identity](#). *Revista Chilena de Antropología*, 34(2), 19–30.
16. Benítez, H. A., Vargas, H. A., & **Püschel, T. A.** (2015). [Left–right asymmetry and morphological consequences of a host shift in the oligophagous Neotropical moth Macaria mirthae \(Lepidoptera: Geometridae\)](#). *Journal of Insect Conservation*, 1–10.
17. **Püschel, T. A.** (2014). [Modularidad e Integración Morfológica en Cráneos Humanos: Un Enfoque Morfométrico Geométrico](#). *International Journal of Morphology*, 32(1), 299–304.
18. **Püschel, T. A.**, & Benítez, H. A. (2014). [Femoral Functional Adaptation: A Comparison Between Hunter Gatherers and Agriculturalists Using Geometric Morphometrics](#). *International Journal of Morphology*, 32(2), 627–633.
19. Benítez, H. A., **Püschel, T.A.**, Lemic, D., Čačija, M., Kozina, A., & Bažok, R. (2014). [Eco-morphological Variation of the Wireworm Cephalic Capsule: Studying the Interaction of Environment and Geometric Shape](#). *PLOS ONE*, 9(7), e102059.
20. Benítez, H. A., Lemic, D., Bažok, R., Bravi, R., Buketa, M., & **Püschel, T.A.** (2014). [Morphological integration and modularity in Diabrotica virgifera virgifera LeConte \(Coleoptera: Chrysomelidae\) hind wings](#). *Zoologischer Anzeiger - A Journal of Comparative Zoology*, 253(6), 461–468.
21. Benítez, H. A., & **Püschel, T. A.** (2014). [Modelando la Varianza de la Forma: Morfometría Geométrica Aplicaciones en Biología Evolutiva](#). *International Journal of Morphology*, 32(3), 998–1008.
22. **Püschel, T. A.**, Espejo, J., Sanzana, M.-J., & Benítez, H. A. (2014). [Analysing the Floral Elements of the Lost Tree of Easter Island: A Morphometric Comparison between the Remaining Ex-Situ Lines of the Endemic Extinct Species Sophora toromiro](#). *PLOS ONE*, 9(12), e115548.

#### BOOK CHAPTERS

1. Manríquez, G., **Püschel, T. A.**, Flores, S., González, T., Moraga, M., & Rothhammer, F. (2016). [Origen y evolución de la población chilena: El punto de vista biológico](#). In F. Fallabela, M. Uribe, C. Aldunate, & J. Hidalgo (Eds.), *Prehistoria en Chile: Desde sus Primeros Habitantes hasta los Incas*. Editorial Universitaria.