

CURRICULUM VITAE

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APPOINTMENTS

- Since 2006** Maître de conférences (assistant professor)
Muséum national d'Histoire naturelle
Musée de l'Homme, Paris
- 2002-2006** Senior Research Associate, **Anthrotech Inc.**,
Yellow Springs OH
- 2001-2002** Adjunct assistant professor, Dept. of Anthropology
Queens College / Lehman College, City University of New York
Queens and Bronx, NY
- 2000-2002** Postdoctoral fellow, American **Museum of Natural History**
New York, NY

EDUCATION

- 1998** PhD Physical Anthropology
Université Bordeaux 1
Thesis defended as a "European PhD".
Thesis Title: **Cranial size and shape in later Pleistocene Hominids. Contributions of Geometric Morphometrics to the modern human origins debate**
- 1994** Master of Arts
Johannes Gutenberg-Universität Mainz, Germany
M. A. (Magister Artium) program in Physical Anthropology, Prehistory and Cultural Anthropology. Grade equivalent: A (with distinction)

DISTINCTIONS

- 2005** International Arch T. Colwell Merit Award of the SAE
for outstanding technical and professional merit
- 1999** Student Prize GfA (German Anthropological society)

PUBLICATIONS:

- Khonsari, R.H., Charlier P., Corre P., Salagnac, J.M., Cabanis, E.A.M., Mercier J.M., Friess M. (in press): Les déformations intentionnelles du crâne : protocole pour une description pluridisciplinaire. *Biométrie humaine et Anthropologie*.
- Hsiao H, Friess, M, Bradtmiller, B (in press): Development of sizing structure for fall arrest harness design. *Ergonomics*.
- Friess, M (2009): Climate and craniofacial shape variation among major human populations: a geometric morphometric approach. *Am. J. Phys. Anthropol. Suppl 48* : p130.
- Simonis-Sueur, C., Friess, M., Déroit, F. (2009) : Skull shapes, maps, and microscribes. *Am. J. Phys. Anthropol. Suppl 48* : p240.
- Simonis-Sueur, C., Friess, M., Déroit, F. Froment, A. (2008): Analyse de la variabilité morphométrique du crâne. Collections et méthodologie. Actes de la 1833ème Réunion Scientifique de la Société d'Anthropologie de Paris, 23-25 Janvier 2008.
- Friess, M (2008): Geography, genes, and modern human skulls: Current approaches to craniofacial variation. *Bull. Mem. Soc. Anthropol. Paris, n.s., t20*, p38-39.
- Simonis-Sueur, C., Déroit, F. Friess, M. (2007) Intégration morphologique, ontogénique et fonctionnelle, du crâne des *Homo sapiens*, par les Two - Block Partial Least Squares. Actes du 5e Symposium « Morphométrie et Évolution des Formes », Paris, 26-27 mars 2007.
- Friess, M. (2006) The study of craniofacial growth patterns using 3D laser scanning and geometric morphometrics. In: Corner, BD; Li, P & Tocheri, M (eds): *Three-Dimensional Image Capture and Applications. Proceedings SPIE , Vol 6056*.
- Friess, M. (2005) Multivariate accommodation models using traditional and 3D anthropometry. *SAE 2005 Transactions Journal of Passenger Cars: Electronic and Electrical Systems: 859-862*.
- Friess, M. (2005) Allométrie et dimorphisme sexuel chez *Homo sapiens*: analyse Procruste de la croissance craniofaciale (abstract). 27ième colloque du Groupement d'Anthropologues de Langue Française, Mai 2005, Toulouse. France.
- Baylac, M. & Friess, M. (2005) Combining Procrustes Superimposition and Fourier descriptors: Analysis of midsagittal cranial outlines. In DE Slice (ed.): *Modern Morphometrics in Physical Anthropology*. Kluwer: 145-165
- Friess, M., Rohlf, F.J., Xiao H. (2004) Quantitative assessment of human body shape using Fourier analysis. In: Brian D. Corner, Peng Li, Roy P. Pargas (Eds.) (2004): Proc. SPIE Vol. 5302, *Three-Dimensional Image Capture and Applications VI* p. 117-124
- Friess, M. Corner, B.D. (2004) From XS to XL: Statistical Modeling of Human Body Shape Change using 3D Surface Scans. *SAE 2004 Transactions, Journal of Aerospace, Volume 1: 215-220*.
- Friess, M., Bradtmiller, B. (2003) 3D Head Models for Protective Helmet Development. *Proceedings of the SAE 2003 Digital Human Modeling Symposium, Montreal, Canada, June 16-19, 2003*.

- Friess, M. (2003) 3D modeling of fall protection harnesses. Proceedings of the International Ergonomics Association of XVth Triennial Congress and 7th Ergonomics Society of Korea/Japan Ergonomics Society Joint Conference. Seoul, August 24-29 2003.
- Friess, M. (2003) An application of the relative warps analysis to problems in human paleontology - with notes on raw data accuracy. *Image analysis and stereology* 22: 63-72.
- Friess, M. & Baylac M. (2003) Exploring artificial cranial deformation using Elliptic Fourier Analysis of Procrustes aligned outlines. *Am. J. Phys. Anthropol.* 122 (1): 11-22.
- Delson, E., Reddy, D., Frost, S., Rohlf, F.J., Friess, M., McNulty K., Baab, K., Capellini, T. and Hagell, S. E. (2003) 3D visualization of inferred intermediates on a phylogenetic tree--Applications in paleoanthropology (abstract). *Amer. J. Phys. Anthropol. Suppl.* 35 (abstracts) 36: 86-87.
- Reddy, D.P., Frost, S., Friess, M., Marcus, L.F. & Delson, E. (2002). An interactive database for primate morphometric studies. *Am. J. Phys. Anthropol. Suppl.* 34 (abstracts): p 129.
- Friess, M. (2002) Revisiting human cold adaptation - craniofacial shape assessed by 3D laser scanning. *Am. J. Phys. Anthropol. Suppl.* 34 (abstracts): p 72.
- Delson, E., Friess, M., Marcus L.F. & Reddy D.P. (2002) Assessment of quantitative characters in the distal humerus among hominids (great apes and hominins). *Am. J. Phys. Anthropol. Suppl.* 34 (abstracts): p 61.
- Friess, M., Marcus, L.F., Reddy, D.P. & Delson, E. (2002) The Use of 3D Laser Scanning Techniques for the Morphometric Analysis of human Facial Shape Variation. Three-Dimensional Imaging in Paleoanthropology and Prehistoric Archaeology. (Proceedings of the XIVth UISPP Congress, 2001), ed. B. Mafart and H. Delingette. British Archaeological Reports, S1049. Archaeopress: Oxford, UK
- Baylac, M. & Friess, M. (2002) Combining Procrustes Superimposition and Fourier descriptors: Analysis of midsagittal cranial outlines. *Am. J. Phys. Anthropol. Suppl.* 34 (abstracts): p 41.
- Castex, D. & Friess, M. (2001) Ein Pestsommer in der Provence. Demographische Anomalien im Zusammenhang mit Epidemien. In A Kemkes-Grottenthaler & W Henke (eds.) *Pein und Plagen. Aspekte einer Historischen Epidemiologie.* Edition Archaea, Frankfurt a. M.
- Friess, M. (2000b) Cranial Size and shape in Upper Pleistocene hominids – Contributions of geometric morphometrics to later human evolution. In M. Schultz (ed.): *Internationale Anthropologie.* VML-Verlag Leidorf GmbH, Bielefeld.
- (2000a) Application des "thin-plate splines" en Paléoanthropologie: nouvelles données et leurs implications pour l'origine de l'Homme moderne. In Andrieux P., Hadjouis D., & Dambricourt Malassé A. (eds.): *L'identité humaine en question, nouvelles problématiques et nouvelles technologies en Paléontologie biologiques.* Actes du Colloque, Créteil, 26-28 Mai 1999.
 - (1999b) Some aspects of Cranial Size and Shape, and Their Variation among Later Pleistocene Hominids. *Anthropologie (Brno)* 37/3 : 231-238.
 - (1999a) Taille et conformations crânienne chez les Hominidés de la fin du Pléistocène. Contributions de la morphométrie géométrique au débat sur l'origine de l'homme moderne. *BAR International Series* 799, Oxford: 241 p.
 - (1998) Cranial size and shape in Upper Pleistocene hominids – Contributions of geometric morphometrics to later human evolution. *Homo* 49 (supplement) : S34.

- (1997c) Origine de l'Homme moderne : l'apport de la morphométrie géométrique. Bull. Soc. Anthropol. Sud-Ouest 32/3-4: pp 67-93.
- (1997b) Analyses de formes crâniennes fondées sur la photogrammétrie. Biom. Hum. et Anthropol. 15(1-2) : 19-22.
- (1997a): Innovative Ansätze zur Erfassung osteomorphometrischer Daten. Bull. Soc. Suisse d'Anthrop 1, 3: 37-54.