

# Yann Heuzé

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Department of Anthropology  
The Pennsylvania State University  
311 Carpenter Building  
University Park, PA 16802, USA

[yuh15@psu.edu](mailto:yuh15@psu.edu) or [yannheuze@gmail.com](mailto:yannheuze@gmail.com)  
<http://www.anthro.psu.edu>  
<http://www.getahead.psu.edu>  
+1-814-865-2066

Citizenship: French Married Born 17-08-1976  
Languages: English (proficient user), Spanish and Portuguese (independent user)

## **POSITIONS**

- Since 2008 **Research Associate, The Pennsylvania State University** (NIH grants # DE016886 and CDC5R01000350)  
2007-2008 Postdoctoral Research Fellow, Radiology Department, Medical University Innsbruck, Austria (EU FP6 Marie Curie "European Virtual Anthropology Network; EVAN", grant # MRTN-CT-2005-019564)  
2005-2006 Postdoctoral Research Fellow, Department of Anthropology, University of Coimbra, Portugal (Foundation Fyssen Fellowship)

## **EDUCATION**

- 2001-2004 **PhD, Biological Anthropology, University Bordeaux 1, France**  
Dissertation: *Chronology and etiology of macrostructural maturation of permanent teeth*  
Committee: José Braga, Daniel Bley, Jaroslav Bruzek, Eugénia Cunha, Olivier Dutour, Anne-Marie Tillier  
1999-2001 **MA, Biological Anthropology, University Bordeaux 1, France**  
Dissertation: *Size; measure and perception of a biological trait*  
1995-1999 **BA, Biology of Organisms, University Bordeaux 1, France**

## **RESEARCH INTERESTS**

Hominoid craniofacial and dental development; Geometric morphometrics & multivariate shape analysis; Symmetry and Asymmetry; Craniosynostosis: Growth and surgical outcome; Medical applications: Design of implants; Evolution and speciation: Cichlid fish as an evolutionary model

## **TEACHING**

- 2009 *Systematics and Evolution of Fishes: Ichthyology*, Penn State University, School of Forest Resources, Guest Lecturer  
2006 *Biological Anthropology: Career development*, University of Coimbra, Portugal, Dpt. of Anthropology, Guest Lecturer  
2006 *Non-adult dental age estimation methods*, Medical University of Lisbon, Portugal, College of Dentistry, Guest Lecturer  
2006 *Dental macrostructural maturation*, Professional organization of the Orthodontists of Toulouse, France, Guest Lecturer  
2004, 2005 *Human development: Biological Anthropology*, University Bordeaux 1, France, Guest Lecturer  
2002 *Biology and Organic Chemistry: Biology of Organisms*, University Bordeaux 1, France, Teaching Assistant

## **RESEARCH GRANTS & FELLOWSHIPS**

- 2006 Foundation Fyssen Postdoctoral Research Fellowship, Role: PI (€21,700)  
2002-2005 Centre National de la Recherche Scientifique (CNRS) PhD Fellowship, Role: PI (€40,500)

## **PUBLICATIONS**

- Heuzé Y**, Boyadjiev SA, Marsh JL, Kane AA, Cherkez E, Boggan JE, Richtsmeier JT. 2010. New insights into the relationship between suture closure and craniofacial dysmorphology in sagittal nonsyndromic craniosynostosis. *J Anat* 217:85-96.
- Cardoso HFV, **Heuzé Y**, Júlio P. 2010. Secular change in the timing of dental root maturation in Portuguese boys and girls. *Am J Hum Biol* 22:791-800.
- Heuzé Y**, Cardoso HFV. 2008. Testing the quality of non-adult Bayesian dental age assessment methods to juvenile skeletal remains: the Lisbon collection children. *Am J Phys Anthropol* 135(3):275-283.
- Heuzé Y**, Braga J. 2007. Application of non-adult Bayesian dental age assessment methods to skeletal remains: the Spitalfields collection. *J Archaeol Sci* 35:368-375.
- Braga J, **Heuzé Y**. 2007. Quantifying Variation in Human Dental Developmental Sequences. An Evo-Devo Perspective. In Bailey S, Hublin JJ, editors. *Dental Perspectives on Human Evolution: State of the art Research in Dental Anthropology*. Vertebrate Paleobiology and Paleoanthropology Series. Berlin: Springer
- Braga J, **Heuzé Y**, Chabadel O, Sonan K, Gueramy A. 2005. Non-adult dental age assessment: Correspondence analysis and linear regression versus Bayesian prediction. *Int J Leg Med* 119:260-274.
- Heuzé Y**, Chabadel O, Braga J, Bley D. 2005. Socioeconomic effect on non-adult dental age assessment. *L'Orthodontie Française* 76(3):309-316.
- Heuzé Y**, Bley D, Bonnet D. 2003. La stature : mesure et perception d'un caractère biologique. *Anthropo*, 5, 1-8. ([www.didac.ehu.es/anthropo](http://www.didac.ehu.es/anthropo))

## **ABSTRACTS, PODIUM PRESENTATIONS & POSTERS**

- Heuzé Y**, Martínez-Abadías N, Stella JM, Boyadjiev SA, Richtsmeier JT. 2011. Do left and right unilateral coronal craniosynostoses result from the same biological processes? *Am J Med Genet Part A* 155A(1).
- Heuzé Y**, Boyadjiev SA, Richtsmeier JT. 2010. The premature closure of the sagittal suture and its consequences on the human skull shape: new findings and hypothesis. *Am J Phys Anthropol* 141(S50):127.
- Aldridge K, **Heuzé Y**, Percival C, Stella J, Howell LG, George I, Marsh J, Kane A, Ryan TM, Richtsmeier JT. 2010. The relationship between hard and soft tissue: lessons for reconstructing virtual endocasts. *Am J Phys Anthropol* 141(S50):53.
- Heuzé Y**. 2009. Sex and size effect on human neurocranium shape. *Am J Phys Anthropol* 138(S48):149.
- Heuzé Y**, Marreiros F, Verius M, Eder R, Huttary R, Recheis W. 2008. The use of Procrustes average shape in the design of custom implant surface for large skull defects. *Int J CARS* (2008) 3 (Suppl 1):S283-S284.
- Heuzé Y**, Marreiros F, Verius M, Eder R, Recheis W. 2008. Design of custom implants for large skull defects by means of geometric morphometrics. *European Congress of Radiology, Vienna, Austria*.
- Coquerelle M, Bayle P, **Heuzé Y**, Mazurier A, Braga J. 2008. Évaluation du degré de développement dentaire d'un individu. Adaptabilité de systèmes de codage radiographique des stades de minéralisation à la (micro)tomographie ? 1833<sup>e</sup> journées scientifiques de la Société d'Anthropologie de Paris, Marseille, France.
- Heuzé Y**. 2007. Quantification of skeletal growth. The specific demands of forensic practise; the example of dental age. *EVAN Workshop: Techniques for quantification of growth and evolution of form*. Université Paul Sabatier Toulouse III, France.
- Heuzé Y**. 2006. Are population-specific standards needed to improve quality in dental age estimation of subadults? 2006 Canadian Association for Physical Anthropology Congress, Peterborough, Ontario, Canada.
- Heuzé Y**, Roux H, Braga J. 2006. Diagnosis help: presentation of two tools from Anthropobiology. 7th Meeting of the SFODF, Bruxelles, Belgium.
- Heuzé Y**, Braga J, Houët F. 2005. Modularité des séquences de minéralisation dentaire : une nouvelle approche ontogénique et phylogénique. XXVII<sup>e</sup> colloque du Groupement des Anthropologues de Langue Française, Toulouse, France.

- Heuzé Y**, Braga J, Chabadel O. 2005. L'utilisation de référentiels géographiquement spécifiques augmente-t-elle systématiquement la qualité d'une estimation d'âge dentaire ? XXVIIe colloque du Groupement des Anthropologues de Langue Française, Toulouse, France.
- Heuzé Y**, Braga J, Chabadel O. 2005. Estimation de l'âge dentaire : interrogations d'ordre méthodologiques. XXVIIe colloque du Groupement des Anthropologues de Langue Française, Toulouse, France.
- Treil J, Braga J, **Heuzé Y**. 2005. Autopsie virtuelle: mythe et réalité. Imagerie nouvelle des hommes du passé. Journées Françaises de Radiologie (Société Française de Radiologie et Société Française de Médecine Légale et de Criminologie), Paris, France.
- Heuzé Y**, Chabadel O, Braga J, Bley D. 2004. Impact of biological and socioeconomic factors on dental age assesment in non-adults. X International Congress of Auxology, Firenze, Italy.
- Heuzé Y**, Chabadel O, Braga J, Bley D. 2004. Impact du niveau socioéconomique sur l'estimation de l'âge dentaire des non-adultes. 1829° réunion de la Société d'Anthropologie de Paris, Paris, France.
- Braga J, **Heuzé Y**, Chabadel O, Houët F. 2004. Les séquences de minéralisation dentaire en anthropobiologie et en médecine. Réunion UFR Biologie, Université Bordeaux 1, Arcachon, France.
- Heuzé Y**, Braga J. 2003. Apports d'un questionnaire à l'étude du développement dentaire d'enfants vivant en France. 7° journées de l'Orthodontie, Paris, France.
- Heuzé Y**, Bley D, Bonnet D. 2001. La stature : mesure et perception d'un caractère biologique. XXVe colloque du Groupement des Anthropologues de Langue Française, Marseille, France.

### **WORKSHOPS ATTENDED**

- EVAN Intensive Training Course "*Applying EVAN toolkit in VA, medicine, industry*", Hull & York Medical School, University of York, UK (Sep. 21-22 2009)
- EVAN Intensive Training Course "*Growth, variation, and structure of the craniofacial complex in human evolution*", Museo Nacional de Ciencias Naturales (CSIC), Madrid, Spain (May 28-30 2008)
- EVAN Intensive Training Course "*Brain evolution, development and morphometrics*", Unité de neuro-imagerie anatomo fonctionnelle, Commissariat à l'Energie Atomique, Paris, France (Mar. 15-16 2008)
- EVAN Intensive Training Course "*R, Edgewarp and Amira®, three software packages to do Geometric Morphometrics*", Department of Anthropology, University of Vienna, Austria (Nov. 12-14 2007)
- EVAN Intensive Training Course "*Functional morphology and evolution of mamalian dentition*", Senckenberg Forschungsinstitut und Naturmuseum, Palaeoanthropologie, Frankfurt am Main, Germany (Nov. 16-21 2007)
- EVAN Intensive Training Course "*Rapid prototyping technology*", Zumtobel-werkzeugbau, Dornbirn, Austria (Oct. 24-25 2007)
- EVAN Intensive Training Course "*Techniques for quantification of growth and evolution of form*", Université Paul Sabatier Toulouse III, France (Apr. 23-27 2007)
- EVAN Intensive Training Course "*Medical imaging, processing and analysis; visualization and virtual environments in anthropology*", Hull & York Medical School, University of York, UK (Jan.10-12 2007)

### **PROFESIONAL SERVICE**

- Peer Review: American Journal of Physical Anthropology, Journal of Anatomy  
Third EVAN Fellows Workshop, Medical University Innsbruck (2008), Organizer

### **FIELDWORK EXPERIENCE**

- 2004, 2005 Les Pradelles, France – Middle Paleolithic site, Neandertalian occupation. Dr. B. Maureille, PACEA UMR 5199 CNRS, University Bordeaux 1