

## Yann HEUZÉ, Ph.D. Biological Anthropology



Born 17.08.1976  
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English (proficient user), Spanish and Portuguese (independent user).

### Education:

- 06.1995** Senior High School graduation in Bordeaux, France  
**09.1995-06.1999** Licence of Biology of Organisms, University of Bordeaux 1, France  
**09.1999-06.2000** Master 1 of Biological Anthropology, University of Bordeaux 1.  
Thesis: Tools story. Supervision: Dr. M. Lenoir (UMR 5199 PACEA, Université Bordeaux 1)  
**09.2000-06.2001** Master 2 (DEA) of Biologic Anthropology, University of Bordeaux 1.  
Thesis: Size, measure and perception of a biological trait. Supervision:  
Dr. D. Bley (UPR 221 Aix en Provence, France)  
**10.2001-12.2004** Ph.D. in Biological Anthropology, University of Bordeaux 1. Ph.D.  
title: "Chronology and etiology of macrostructural maturation of  
permanent teeth." (<http://tel.archives-ouvertes.fr/tel.00011208/en/>)  
Supervision: Prof. J. Braga (Université Paul Sabatier Toulouse III,  
France) et Dr. D. Bley (UPR 221 Aix en Provence, France)

### Positions:

- 11.2008-10.2009** **Research assistant at the Richtsmeier's lab, Department of Anthropology, Pennsylvania State University, PA, US.** The aim of this position is to study nonsyndromic sagittal craniosynostosis phenotype by means of geometric morphometrics.  
**02.2007-10.2008** **Experienced researcher at the Department for Radiology II, Medical University of Innsbruck, Austria. This position is funded by the Marie Curie Actions, EVAN – European Virtual Anthropology Network – (Contract number MRTN-CT-2005 – 019564).** The purpose of this position was to study human skull shape variability and to design custom implants for large skull defects by means of geometric morphometrics. I have participated to the supervision of a Ph.D. student.  
**09.2005-08.2006** **Postdoctoral researcher at the Department of Anthropology, University of Coimbra, Portugal (grant of the Foundation Fyssen).** I studied dental growth and the potential influence of socioeconomic status on this development trait by means of the reference collections of Coimbra and Lisbon (XIX and XX centuries). I have participated to the supervision of a Master thesis student (dentist).  
**10.2001-12.2004** **Doctor Engineer at UMR 5199 PACEA University Bordeaux 1 (position funded by the CNRS and the Region Aquitaine).** I have studied the chronology of dental development and the potential influence of biological and socioeconomic factors.

### **Participation in intensive training courses**

- EVAN Intensive Training Course “Growth, variation, and structure of the craniofacial complex in human evolution”, Museo Nacional de Ciencias Naturales (CSIC), Madrid, Spain (28-30/05/2008)
- EVAN Intensive Training Course “Brain evolution, development and morphometrics”, Unité de neuro-imagerie anatomo fonctionnelle, Commissariat à l’Energie Atomique, Paris, France (15-16/03/2008)
- EVAN Intensive Training Course “R, Edgewarp and Amira®, three softwares to do Geometric Morphometrics”, Department of Anthropology, University of Vienna, Austria (12-14/11/2007)
- EVAN Intensive Training Course “Functional morphology and evolution of mamalian dentition”, Senckenberg Forschungsinstitut und Naturmuseum, Palaeoanthropologie, Frankfurt am Main, Germany (16-21/11/2007)
- EVAN Intensive Training Course “Rapid prototyping technology”, Zumtobel-werkzeugbau, Dornbirn, Austria (24-25/10/2007)
- EVAN Intensive Training Course “Techniques for quantification of growth and evolution of form”, Université Paul Sabatier Toulouse III, France (23-27/04/2007)
- EVAN Intensive Training Course “Medical imaging, processing and analysis; visualization and virtual environments in anthropology”, York University and Hull University, United Kingdom (10-12/01/2007)

### **Journal articles and book chapters (peer reviewed):**

- 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. Proceedings of the 22<sup>nd</sup> International Congress and Exhibition of Computer Assisted Radiology and Surgery, Barcelona.
- Heuzé Y**, Cardoso H. 2007. 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. (*Impact Factor 2.104*)
- 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. (*Impact Factor 1.322*)
- 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. (*Impact Factor 2.192*)
- 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))

### **Oral communication and posters:**

- 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 ? XXVII<sup>e</sup> 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. XXVII<sup>e</sup> 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<sup>e</sup> 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<sup>e</sup> journées de l'Orthodontie, Paris, France.
- Heuzé Y**, Bley D, Bonnet D. 2001. La stature : mesure et perception d'un caractère biologique. XXV<sup>e</sup> colloque du Groupement des Anthropologues de Langue Française, Marseille, France.

### **Teaching experience:**

- 2005-06** Course "How to construct a research project", Master (7.5h), University of Coimbra.
- 2005-06** Presentation (4h) of the different non-adult dental age estimation methods. Exchanges Portugal-France for the formation of Orthodontists, Lisbon.
- 2005-06** "Dental macrostructural maturation methods" (6h) for the "Association Départementale de Formation Odontologique Continue de la Haute Garonne, France" (Association for Odontological Continue Formation).
- 2003-05** Course "Dental age assessment methods", Licence 3 (8h/year), University of Bordeaux 1.

**2001-02** Courses of Biology and Organic Chemistry, Licence 1 (29h), University of Bordeaux 1.

**Theses supervisor:**

**2007-08** Co-supervisor of a Ph.D. thesis “Development of a software package for custom implant design for large skull defects”, Medical University Innsbruck

**2005-06** Co-supervisor of a Master Thesis, University of Coimbra

**2004-05** Co-supervisor of 3 Master Theses, University Bordeaux 1

**Cooperations:**

“Laboratoire d’Anthropobiologie FRE 2960 CNRS” University Paul Sabatier Toulouse III, France

“Departamento de Antropologia” University of Coimbra, Portugal

Collaboration to the project “Groupement De Recherche 2152” funded by the CNRS

Collaboration to the project “Action Concertée Incitative Jeunes Chercheurs” funded by the French Ministry of Research (2001-2004)