

Curriculum vitae

RNDr. Šárka Bejdová, Ph.D. (8. 11. 1981)

Citizenship: Czech Republic
 Present Position: Research and academic staff member, Department of Anthropology and Human Genetics, Faculty of Science, Charles University, Viničná 7, 128 43, Prague 2,
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Education

2006 – 2015 Doctoral study programme, Charles University, Faculty of Science, study subject: Anthropology and Human Genetics (PhD thesis *Changes of the facial skeleton in Central Europe during the last 1200 years*, supervised by RNDr. Petr Velemínský, Ph.D.), title: Ph.D.
 2001 – 2006 Master's study programme, Charles University, Faculty of Science, study subject: Biology (Diploma thesis: *Health condition and dental morphological traits among the Knovíz culture population during the late period of the Bronze Age*, supervised by RNDr. Petr Velemínský, Ph.D.), title: Msc.

Professional experience

Since 2008 Research and academic staff member, Department of Anthropology and Human Genetics, Faculty of Science, Charles University, Prague, research domains: morphological variability and sexual dimorphism of skulls in historical and recent populations (retrospective and forensic anthropology), morphology of palate and face of cleft lip and palate patients (clinical anthropology), dental anthropology, application of geometric morphometric methods in anthropology
 Since 2015 Member of Czech archaeological mission at Abusir, Egypt, research domains: anthropological analyses, photo-documentation and 3D scanning of human remains
 Since 2009 Departmental coordinator of international study PPL Erasmus and Erasmus + programme, Department of Anthropology and Human Genetics, Faculty of Sciences, Charles University, Prague
 2015 Revision for the journal with impact factor HOMO - Journal of Comparative Human Biology
 2013 – 2015 Curator, Department of Anthropology, National Museum, Prague
 2006 – 2013 Inspection and inventorying of anthropological skeletal remains; creating of electronic database of anthropological museum collection of National Museum, Prague

Teaching records

Charles University in Prague, Faculty of Science:

Since 2017 *Human anatomy II* (graduate course; 33%)
 Since 2014 *Dental anthropology* (graduate course; 42%).
 Since 2013 *Anthropology* (undergraduate course; 17%).
 Since 2013 *Recapitulation of biology III* (undergraduate course; 8%).
 Since 2012 *Practicum from Anthropology* (undergraduate course; 17%).
 Since 2008 *3D display methods used in anthropology* (graduate course; 17%).

Every year lectures and presentation of Laboratory of 3D Visualization and Analytical Methods at open days at Faculty of Science, Charles University etc.

Supervision of students' theses (two successfully finished bachelor theses and one master thesis)

Research grants and projects

Principal investigator

2011 – 2012 Microevolution of cranial facial part during the latest 1200 years using methods of 3D geometric morphometrics (GA UK 309611).

Co-investigator

2015 Longitudinal evaluation of the face in healthy children and patients with established syndromes: detection of deviations in facial morphology (GA UK 178214) (principal investigator Msc. Šárka Mesteková)

2011 Centralized Development Project C55 from the Ministry of Education, Youth and Sports of the Czech Republic, foundation of Laboratory of 3D Visualization and Analytical Methods (principal investigator RNDr. Jana Velemínská, Ph.D.)

2008 – 2010 Centralized Development Project C37/3 from the Ministry of Education, Youth and Sports of the Czech Republic, foundation of Laboratory of 3D Visualization and Analytical Methods (principal investigator RNDr. Jana Velemínská, Ph.D.)

Co-worker

2017 – 2019 Lifestyle and identity of the Great Moravian nobility: archaeological and bioarchaeological analysis of the evidence of Mikulčice's uppermost elites (GAČR 17-01878S, 2017–2019) (principal investigator: PhDr. Lumír Poláček, CSc., co-investigator: prof. RNDr. Jaroslav Brůžek, CSc., Ph.D., HDR)

2015 – 2016 Mikrovzorkování v analýze stabilních izotopů: výživa a zdravotní stav nedospělé populace z lokality Solnice, Internal scientific project of the National Museum, Prague (principal investigator Msc. Sylva Kaupová)

2013 – 2015 Applied research and development of national and cultural identity programme (in short, "NAKI"), National Museum, Prague

Scholarships

2015 Integration and modularity with Geometric Morphometrics, Institut Català de Paleontologia, Barcelona, Spain, instructor: Chris Klingenberg, April 7. – 10., 2015

2012 3D Geometric Morphometrics course, Institut Català de Paleontologia, Barcelona, Spain, instructor: Melissa Tallman, January 10. – 13., 2012

2011 Geometric Morphometrics Workshop, Telč, Czech Republic, instructors: Chris Klingenberg and Emma Sherratt, July 11. – 14., 2011

2008 Geometric morphometrics workshop: An introduction for biologists. Hull York Medical School, York, Great Britain, instructors: Andrea Cardini and Sarah Elton, October 22. – 24., 2008

Publications

Čechová, M., Dupej, J., Brůžek, J., **Bejdová, Š.**, Horák, M., Velemínská, J. (2019): Sex estimation using external morphology of the frontal bone and frontal sinuses in a contemporary Czech population. *International Journal of Legal Medicine* 133: 1285-1294. (IF 2.316)

Musilová, B., Dupej, J., Brůžek, J., **Bejdová, Š.**, Velemínská, J. (2019): Sex and ancestry related differences between two Central European populations determined using exocranial meshes. *Forensic Science International* 297: 364-369. (IF 1.974)

Bejdová, Š., Dupej, J., Krajíček, V., Velemínská, J., Velemínský, P. (2018): Stability of upper face sexual dimorphism in Central European populations (Czech Republic) during the Modern Age. *International Journal of Legal Medicine* 132: 321-330. (IF 2.382)

Hoffmannová E., Moslerová V., Dupej J., Borský J., **Bejdová Š.**, Velemínská J (2018). Three-dimensional development of the upper dental arch in unilateral cleft lip and palate patients after early neonatal cheiloplasty. *International Journal of Pediatric Otorhinolaryngology* 109, in print, 1-6. IF (1.159)

Hoffmannová, E., **Bejdová, Š.**, Borský, J., Dupej, J., Cagaňová, V., Velemínská, J. (2016): Palatal growth in complete unilateral cleft lip and palate patients following neonatal cheiloplasty: Classic and geometric morphometric assessment. *International Journal of Pediatric Otorhinolaryngology* 90, 71-76. (IF 1.125)

Rusková, H., **Bejdová, Š.**, Peterka, M., Krajíček, V., Velemínská, J. (2014): 3-D shape analysis of palatal surface in patients with unilateral complete cleft lip and palate. *Journal of Cranio-Maxillo-Facial Surgery* 42: e140-e147. (IF 2.933)

Bejdová, Š., Krajíček, V., Velemínská, J., Horák, M., Velemínský, P. (2013): Changes in the sexual dimorphism of the human mandible during the last 1200 years in Central Europe. *HOMO - Journal of Comparative Human Biology* 64: 437–453. (IF 0.704)

Bejdová, Š., Krajíček, V., Peterka, M., Trefný, P., Velemínská, J. (2012): Palatal shape and size variability in patients with bilateral complete cleft lip and palate using dense surface model construction and 3D geometric morphometrics. *Journal of Cranio-Maxillofacial Surgery* 40: 201-208. (IF 2.933)

Conferences

Bejdová, Š., Rieger, V., Dupej, J., Velemínský, P., Poláček, L., Velemínská, J. (2019): Skull morphology with regards to the social structure of the Great Moravian settlement agglomeration Mikulčice (9th –10th century AD, Czech Republic). National Symposium Geometric Morphometrics Austria, Vienna, March 27. – 28., 2019

Velemínská, J., Brůžek, J., Poláček, L., **Bejdová, Š.**, Rieger, V., Musilová, B., Velemínský, P., Dupej, J. (2019): Asymmetry of cranial surface in relation to social stratification in Great Moravia (Early Medieval period, Mikulčice, Czech Republic, 9th–10th century). 84th Annual Meeting of Society for American Archaeology, Albuquerque, United States of America, April 10. – 14., 2019

Bejdová, Š., Dupej, J., Velemínský, P., Poláček, L., Velemínská, J. (2018): Morphology of facial skeleton of the early Medieval elites (9th –10th century AD, Czech Republic). 21st Congress of the European Anthropological Association, Odense, Denmark, August 22.-25., 2018

Bejdová, Š., Dupej, J., Velemínská, J., Poláček, L., Velemínský, P. (2017): Sexual dimorphism of the upper face, mandible and palate in elite of early medieval population from the Central Europe. 85th Annual Meeting of American Association of Physical Anthropologists, New Orleans, United States of America, March 17.-19., 2017

Hoffmanova, E., **Bejdová, Š.,** Borský, J., Dupej, J., Cagaňová, V., Velemínská, J. (2016): Palatal growth in complete unilateral cleft lip and palate patients following neonatal cheiloplasty. 23rd Congress of the European Association for Cranio Maxillo-Facial Surgery, London, Great Britain, September 13. - 16., 2016

Bejdová, Š., Dupej, J., Krajíček, V., Velemínská, J., Velemínský, P. (2015): Population-specificity and sexual dimorphism of the upper facial skeleton. 7th European Academy of Forensic Science Conference, Prague, Czech Republic, September 6. – 11., 2015

Bejdová, Š., Krajíček, V., Velemínská, J., Horák, M., Velemínský, P. (2012): Microevolution of upper face in the area of Central Europe during the latest 1200 years. 18th Congress of the European Anthropological Association, Ankara, Turkey, September 3. - 6., 2012

Bejdová, Š., Krajíček, V., Velemínská, J., Horák, M., Velemínský, P. (2011): Microevolution of mandible in the area of Central Europe during the latest 1200 years using methods of 3D geometric morphometrics. 9. Internationaler Kongress der Gesellschaft für Anthropologie (GfA), Schloss Gottorf, Schleswig-Holstein, Germany, September 12. – 16., 2011

Krajíček, V., **Bejdová, Š.,** Velemínská, J., Pelikán, J. (2011): Improving B-spline deformation based fitting for volume registration. 31st conference on geometry and graphics Malá Morávka, Czech Republic, September 5. – 8., 2011

Bejdová, Š., Krajíček, V., Velemínská, J., Bejda, P., Velemínský, P. (2010): Tvar dolní čelisti u velkomoravské populace za využití metod 3D geometrické morfometrie. Antropologické dni v Budmericiach, Budmerice, Slovakia, June 16. – 18., 2010

Bejdová Š., Velemínská J., Trefný P., Peterka M. (2009): A three-dimensional geometric morphometric study of palatal shape in patients with bilateral complete cleft and palate. V. Mezinárodní antropologický kongres Aleše Hrdličky "Quo vadis homo...societas humana?", Praha, Humpolec, Czech Republic, September 2.–5., 2009

Bejdová Š., Velemínská J., Trefný P., Peterka M. (2009): A three-dimensional geometric morphometric study of palatal shape in patients with bilateral complete cleft and palate. I Iberian Symposium on Geometric Morphometrics, Barcelona, Spain, July 23. – 25., 2009

Bejdová, Š., Velemínský, P. (2008): Dentální morfologické variety u populace knovízské kultury z mladší doby bronzové. 4. Memoriál prof. J. Matiegky a prof. J. Malého - Antropologie 21. století, Praha, Mělník, Czech Republic, October 2. – 3., 2008