

Curriculum vitae

PERSONAL INFORMATION

Thomas Alfred Püschel

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EDUCATION AND TRAINING

Jan 2014–Jan 2018

Ph.D. in Adaptive Organismal Biology

The University of Manchester, School of Earth and Environmental Sciences (United Kingdom)

Dissertation: "Morpho-functional analyses of the primate skeleton: Applying 3D geometric morphometrics, finite element analysis and phylogenetic comparative methods to assess ecomorphological questions in extant and extinct anthropoids."

Supervisor: Prof. William Sellers

Co-supervisor: Prof. Christian Peter Klingenberg

Sep 2012–Aug 2013

M.Sc. in Human Evolution with Distinction

The University of York, Hull York Medical School (United Kingdom)

Dissertation: "Biomechanical modelling of human femora: A comparison between agriculturalists and hunter-gatherers using finite element analysis, geometric morphometrics and beam theory."

Supervisor: Prof. Paul O'Higgins

2007–2011

B.Sc. in Anthropology, Major in Physical Anthropology with Distinction

Universidad de Chile, Santiago (Chile)

Dissertation: "Deformación intencional del cráneo en los oasis de San Pedro de Atacama: un enfoque morfométrico geométrico."

Supervisor: Prof. Germán Manríquez

WORK EXPERIENCE

1 Nov 2018–Present

Postdoctoral Research Fellow - Leverhulme Early Career Fellowship

School of Anthropology and Museum Ethnography, University of Oxford, Oxford (United Kingdom)

Postdoctoral fellowship awarded to undertake the project: 'This study has teeth: exploring human origins and Climate Change through time'. 3D data collection and application of machine-learning regression techniques to generate ecometric models for East Africa using mammalian teeth.

Apr 2018–Oct 2018

Postdoctoral Research Associate

School of Earth and Environmental Sciences, Faculty of Science and Engineering, University of Manchester, Manchester (United Kingdom)

NERC project 'The co-evolution of human hands and tool using behaviour' led by Prof. William Sellers. Geometric morphometric analyses and biomechanical simulations of primate hands.

May 2013 Research Assistant

Musée de l'Homme, Paris (France)

Ecos-Conicyt Project headed by Dr. Germán Manríquez and Dr. Martin Friess. 3D Surface Scanning and geometric morphometric analyses of human skulls.

Oct 2010–Oct 2012 Laboratory Assistant

Universidad de Chile

Assistant at the Geometric Morphometrics laboratory of the Human Genetics Program, ICBM (Universidad de Chile) under the supervision of Dr. Germán Manríquez. Morphometric data acquisition and analysis, teaching experience, and fieldworks in different museums.

Jun 2012 Research Assistant

Musée d'Anthropologie préhistorique (Monaco)

Ecos-Conicyt Project headed by Dr. Germán Manríquez and in collaboration with Dr. Patrick Simon.

May 2012 Research Assistant

Russian Institute of Archaeology, Moscow (Russia)

Russian-Chilean Bilateral cooperation project of biomedical techniques applied to archaeology led by Dr. Germán Manríquez and in collaboration with Dr. Maria Mednikova and Dr. Tatiana Shvedchikova.

2010–2011 Research Assistant

Gustavo Le Paige Archaeological Museum and Calama Cultural Foundation (Chile)

Research Assistant for the ACT-96 Team Research Project (Proyecto Anillo) during November 2010 and January, February and November 2011. Acquisition of primary data by means of landmark digitizing (*MicroScribe Digitizer*) and also from photographs and X-rays, as well as surface scanning (*NextEngine 3D Scanner*).

Aug 2011–Nov 2011 Professional Practice

Gustavo Le Paige Archaeological Museum, San Pedro de Atacama (Chile)

3D scanning of 306 Pre-Hispanic human skulls and around 1800 photographs of skeletal material housed at the museum. Creation of 3D models by means of laser surface scanning, along with the creation of homologous landmarks maps. Basic exploratory and statistical analysis of the obtained data.

May 2011 Internship

Musée de l'Homme, Paris (France)

Ecos-Conicyt Project : 2D and 3D Surface Scanning and photography of archaeological skulls.

Jan 2010–Feb 2010 Internship

Gustavo Le Paige Archaeological Museum, San Pedro de Atacama (Chile)

Intern under the direction of Dr. Mark Hubbe. Conservation, restoration, cataloguing, inventory, and bioanthropological profiles of osteological collections and mummies kept at the museum. In addition, several dental molds were collected in some of the bioanthropological collections.

ADDITIONAL INFORMATION**Teaching experience**

November 2018- Present Supervision of 3rd-year project in Biological Sciences (University of Oxford, UK).

March-2018 Instructor of the 'Primate Models for Behavioural Evolution – Methods Workshop' A

workshop on methods for data collection and analysis in evolutionary anthropology for graduate students (University of Oxford, UK).

February 2016 - October 2018 Teaching Assistant of the morphometrics unit of the BIOL20912 Human anatomy RSM under the supervision of Prof. Klingenberg and Gabriel Stefan (University of Manchester, UK).

May 2012 Teaching Assistant of the Workshop on Geometric Morphometrics for Anthropology, Biology, and Archaeology. (Department of Physical Anthropology, Peter the Great Museum of Anthropology and Ethnography. Russian Academy of Sciences. Saint Petersburg, Russia).

Second Semester 2011 Teaching Assistant of the "Evolution" module of the course "Introduction to Human Movement", (Physical therapy degree program, Faculty of Medicine, Universidad de Chile, Santiago de Chile).

Second Semester of 2011 Teaching Assistant of the course "Morphophysiology IV: Growth and Development" given by Dr. Juan Carlos Salinas and Dr. Germán Manríquez. (Universidad de Chile, Santiago de Chile).

First Semester 2011 Teaching Assistant of the course "Evolution II" given by Dr. Germán Manríquez. (Universidad de Chile, Santiago de Chile).

Scholarships

Becas Chile PhD Scholarship (2014-2018), National Commission for Scientific and Technological Research of Chile.

Becas Chile Master Scholarship (2012-2013), National Commission for Scientific and Technological Research of Chile.

ECOS-CONICYT scholarship for an Internship in the context of the bilateral cooperation project Ecos-Conicyt "Les découvertes archéologiques de la mission scientifique de Georges de Créqui-Montfort et d'Eugène Sénéchal de la Grange (1903) dans la nécropole de Calama (Désert d'Atacama), Chili". Laboratory of Dr. Martin Friess, Musée de l'Homme, Muséum d'Histoire Naturelle, Paris.

Grants

The Boise Fund. (December 2018) Grant awarded by the Zoology Department of the University of Oxford to support research on the antiquity and evolutionary origin modern Homo sapiens and other hominins. The project will be focused on developing new dental ecometrics to reconstruct the African late Miocene/early Pliocene environment to understand the role of Climate Change on human origins.

Leverhulme Early Career Fellowship. (2018-2021). Postdoctoral fellowship awarded to undertake the project "This study has teeth: exploring human origins and Climate Change through time" ECF-2018-264.

SYNTHESYS Access Project. EU-funded Integrated Activities grant. (March 2015). BE-TAF-4459 grant for access to the Royal Museum for Central Africa, Tervuren (Belgium) (BE-TAF). 3D data collection of anthropoid scapulae to perform comparative geometric morphometrics and biomechanical analyses.

Faculty of Social Sciences Competitive Funding for DAE-CECSO academic activities. (2009) Funding for a student project to undertake short-term research on the "Chonos" a pre-Hispanic, canoeist population (Las Guaitecas Archipelago, Aysén Region, Chile).

Journal Articles

1. **Püschel TA**, Marcé-Nogué J, Gladman JT, Bobe R, Sellers WI. 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, 20180520.
2. Benítez HA, Lemic D, **Püschel TA**, Virić Gašparić H, Kos T, Barić B, Bažok R, 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.
3. **Püschel TA**, Marcé-Nogué J, Kaiser TM, Brocklehurst RJ, Sellers WI. 2018. Analyzing the sclerocarp adaptations of the Pitheciidae mandible. *American Journal of Primatology* 80, e22759.
4. **Püschel TA**, Gladman JT, Bobe R, Sellers WI. 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.
5. Marcé-Nogué J, **Püschel TA**, Kaiser TM. 2017. A biomechanical approach to understand the ecomorphological relationship between primate mandibles and diet. *Scientific Reports* 7:8364.
6. Püschel HP, **Püschel TA**, Rubilar-Rogers D. 2017. Taxonomic Comments of a *Glossotherium* Specimen from the Pleistocene of Central Chile. *Boletín del Museo Nacional de Historia Natural, Chile* 66:223–262.
7. Marcé-Nogué J, Esteban-Trivigno SD, **Püschel TA**, Fortuny J. 2017. The intervals method: a new approach to analyse finite element outputs using multivariate statistics. *PeerJ*. 5, e3793.
8. **Püschel TA**, Sellers WI. 2016. Standing on the shoulders of apes: Analyzing the form and function of the hominoid scapula using geometric morphometrics and finite element analysis. *Am J Phys Anthropol* 159:325–341.
9. Bucchi A, **Püschel TA**, 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* 34:19–30.
10. Benítez HA, Vargas HA, **Püschel TA**. 2015. Left–right asymmetry and morphological consequences of a host shift in the oligophagous Neotropical moth *Macaria mirthae* (Lepidoptera: Geometridae). *J Insect Conserv*:1–10.
11. **Püschel TA**. 2014. Modularidad e Integración Morfológica en Cráneos Humanos: un Enfoque Morfométrico Geométrico. *International Journal of Morphology* 32:299–304.
12. **Püschel TA**, Benítez HA. 2014. Femoral Functional Adaptation: A Comparison Between Hunter-Gatherers and Agriculturalists Using Geometric Morphometrics. *International Journal of Morphology* 32:627–633.
13. Benítez HA, **Püschel TA**, Lemic D, Čačija M, Kozina A, Bažok R. 2014. Ecomorphological Variation of the Wireworm Cephalic Capsule: Studying the Interaction of Environment and Geometric Shape. *PLoS ONE* 9:e102059.
14. Benítez HA, Lemic D, Bažok R, Bravi R, Buketa M, **Püschel TA**. 2014. Morphological integration and modularity in *Diabrotica virgifera virgifera* LeConte (Coleoptera: Chrysomelidae) hind wings. *Zoologischer Anzeiger - A Journal of Comparative Zoology* 253:461–468.

15. Benítez HA, **Püschel TA**. 2014. Modelando la Varianza de la Forma: Morfometría Geométrica Aplicaciones en Biología Evolutiva. *International Journal of Morphology* 32:998–1008.

16. **Püschel TA**, Espejo J, Sanzana M-J, Benítez HA. 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:e115548.

Book chapters

1. **Manríquez G, Püschel TA, Flores S, González T, Moraga M, Rothhammer F**. 2016. Origen y evolución de la población chilena: el punto de vista biológico. In: Fallabela F, Uribe M, Aldunate C, Hidalgo J, editors. Prehistoria en Chile. Desde sus Primeros Habitantes hasta los Incas. Editorial Universitaria.

Under review/Submitted

1. Marcé-Nogué J, **Püschel TA**, Daasch A, Kaiser T. Under review. Combined chewing biomechanics and mandible morphology in early hominin suggest dietary soft-food traits. *Scientific reports*.

2. Bucchi A, **Püschel TA**, Lorenzo C, Marcé-Nogué J. Under review. Finite Element Analysis of Hominoidea thumb proximal phalanx during simulated stone tool use. *Journal of Human Evolution*.

3. Marcé-Nogué J, **Püschel TA**, Kaiser T. Under review. Response surface optimization methods to infer muscle forces in Miocene apes corroborates frugivorous diet in Ekembo. *Proceedings of the Royal Society B*.

4. **Püschel TA**, Marcé-Nogué J, Chamberlain AT, Yoxall A, Sellers WI. Submitted. The biomechanical importance of the scaphoid-centrale fusion during simulated knuckle-walking and its implications for the locomotion of the last common ancestor of humans and the African apes. *Scientific Reports*.

Conference presentations and symposia

1. Manríquez G, **Püschel TA**, Toro-Ibacache V. Antropología virtual y morfometría geométrica: Nuevos enfoques para analizar la dieta en contextos arqueológicos. Congreso Chileno de Arqueología (December 2018), Santiago, Chile.

2. Benítez, H, **Püschel TA**. Evolution of average shape, disparity and allometry in the ground beetle genus *Ceroglossus*. Sociedad Chilena de Biología (November 2018), Puerto Varas, Chile.

3. **Püschel TA**. "Relaciones ecomorfológicas entre la dieta y la estructura mandibular de Primates: un enfoque morfo-funcional". Simposio de Antropología Dental y Genética Antropológica: estado actual y perspectivas en modelos humanos y de otros mamíferos (December 2017), Santiago, Chile.

4. **Püschel TA**, Gladman J, Bobe R, Sellers WI. "The Ecomorphological Affinities of the Miocene Platyrrhine Tali". 15th Annual Meeting of the European Association of Vertebrate Palaeontologists, (1-3 August 2017) Munich, Germany.

5. **Püschel TA**, Gladman J, Bobe R, Sellers WI. "La evolución del talus platirino: un análisis comparativo de las afinidades morfo-funcionales de los platirinos del mioceno del extremo sur de sudamérica con sus parientes modernos". XIV Congreso Asociación Latinoamericana de Antropología Biológica (15-18 October 2016) Santiago, Chile.

6. **Püschel TA**, O'Higgins P. "Biomechanical modelling of human femora: a comparison between agriculturalists and hunter-gatherers using FEA, GMM and beam theory. 8ème Symposium de Morphométrie et Evolution des Formes (2-3 June 2014) Dijon, France.

7. **Püschel TA**, Sellers WI. "Forma y Función de la Escápula Hominoidea" XIII Congreso Asociación Latinoamericana de Antropología Biológica (15-18 October 2014) Santiago, Chile.
8. **Püschel TA**, O'Higgins P. "Comparando Fémures Agricultores y Cazadores-Recolectores". XIII Congreso Asociación Latinoamericana de Antropología Biológica (15-18 October 2014) Santiago, Chile
9. **Püschel TA**. "Biomechanical Toolkit in Virtual Anthropology". SOCHIAB Meeting. (29-30 December 2013) Concepción, Chile.
10. **Püschel TA**. "Virtual Casting in Bioanthropology" SOCHIAB Meeting (17 December 2013) Santiago, Chile.
11. **Püschel TA**. "Analysis of Artificial Cranial Deformation through the use of Geometric Morphometrics". Workshop on Geometric Morphometrics (October 2011), Santiago, Chile.
12. **Püschel TA**, Manríquez G. "Artificial Cranial Deformation in San Pedro de Atacama Oases". III Latin American Congress of Archaeometry (November 2011), Arica, Chile.

Posters

- Püschel HP, **Püschel TA**. Body mass estimation of the only record of *Glossotherium robustum* in Chile. 1er Congreso de Paleontología Chilena (October 2018), Puntas Arenas, Chile.
- Bucchi A, **Püschel TA**, Lorenzo C, Marcé-Nogué J. Stress distribution in the thumb proximal phalanx in Chimpanzee and Homo species during simulated stone-tool use. European Society for the study of Human Evolution (September 2018), Faro Portugal. Best Prize Poster.
- Püschel TA**, Marcé-Nogué J, Gladman JT, Bobe R, Sellers WI. Inferring locomotor behaviours in Miocene New World monkeys using talar morphology as proxy. European Society for the study of Human Evolution (September 2018), Faro, Portugal.
- Püschel TA**, Marcé-Nogué J, Kaiser T, Brocklehurst R, Sellers, WI. Analyzing the Morpho-functional Consequences of Seed Predation in the Pitheciid lower Jaw using Finite Element Analysis and Geometric Morphometrics. AAPA (April 19-22, 2017) New Orleans, USA.
- Püschel HP, **Püschel TA**, Bostelmann E, Rubilar-Rogers D. Análisis morfológico de los restos de *Glossotherium* (Mammalia, Xenarthra) de Lonquimay, región de la Araucanía. V Simposio de paleontología, (November 7-10 2016), Concepción, Chile.
- Püschel TA**, Sellers WI. Form and function of the platyrrhine talus: analyzing the association between talar shape and locomotor mode percentages. IPS/ASP (August 21-27, 2016) Chicago, USA.
- Püschel TA**, Sellers WI. Analyzing the Association between Platyrrhine Locomotor Mode Percentages and Talar Shape. ICVM (June, 2016) Washington DC, USA.
- Püschel TA**, Sellers WI. Analysing the Form and Function of the Hominoid Scapula: a Morphometric and Biomechanical Approach. . AAPA (March, 2015), St Louis, USA.
- Püschel TA**, Sellers WI. Standing On The Shoulder Of Neanderthals: Analyzing Scapular Form And Function Using Finite Element Analysis And Geometric Morphometrics. 4th International Palaeontological Congress (October 2014), Mendoza, Argentina.
- Püschel TA**, Sellers WI. Analysing the Form and Function of the Hominoid Scapula: a Morphometric and Biomechanical Approach. SVPCA (September 2014), York, UK.

Püschel TA, O'Higgins P. Biomechanical Modelling of Human Femora: comparing Agriculturalists vs. Hunter-Gatherers. XI Jornadas de Antropología Biológica (November 2013), Buenos Aires, Argentina.

Püschel TA, O'Higgins P. Biomechanical Modelling of Human Femora: Comparing Beam Theory vs. Finite Element Analysis. PALEO conference (June 2013), York, UK.

Püschel TA. What does it mean to be a "gum specialist"? Exudatory adaptations and Phylogeny of the Pygmy Marmoset (*Cebuella Pygmaea*). PALEO conference (June 2013), York, UK.

Bucchi A, **Püschel TA**, Manríquez G. Rol Social y Patrones de Deformación Intencional del Cráneo durante la Prehistoria de Atacama: un Análisis Usando Morfometría Geométrica. XIX Congreso Nacional de Arqueología Chilena (Octubre 2012), Arica, Chile.

Ad-hoc reviewer

- Journal of Paleontology
- International Journal of Tropical Biology and Conservation
- Mammalian Biology
- Revista Colombiana de Entomología
- Scientific Reports
- American Journal of Primatology

Scientific affiliations

- Chilean Society of Biological Anthropology (SOCHIAB). 2011-Present.
- American Association of Physical Anthropology, USA. 2015-Present.
- Primate Society of Great Britain, UK. 2013-2015.
- International Primatological Society. 2015-Present.
- European Society for the study of Human Evolution. 2016-Present.

Other invited lectures and public presentations

Püschel TA. Adaptive radiation and evolution of Neotropical primates. Departmental seminar series, School of Anthropology and Museum Ethnography, University of Oxford (February 2019). Oxford, UK.

Püschel TA. What's with the long face? Analysing craniofacial diversification in baboons (genus *Papio*). Primate conversations seminar series, Institute of Cognitive and Evolutionary Anthropology, University of Oxford (February 2019). Oxford, UK.

Püschel TA. Analysing craniofacial diversification in baboons (genus *Papio*) using macro-evolutionary approaches and habitat suitability models. Seminario Nuevas fronteras en el estudio de la evolución humana: El proyecto PPPG (Paleo-Primate Project Gorongosa) en el Parque Nacional Gorongosa, Mozambique (December 2018). Santiago, Chile.

Püschel TA. Virtual Dental Anthropology. Institute of Archaeology Russian Academy of Sciences (May 2012). Moscow, Russia.

Püschel TA. Virtual Anthropology applications to elucidate bioarcheological questions (May 2012). Moscow, Russia.

Simposia and organised conferences

4th International Meeting of Early-stage Researchers in Palaeontology
Cuenca (Spain) 11-14 June 2019. <https://imerp2019.weebly.com/organizing-committee.html>

European Federation of Primatology 2019 & the Primate Society of Great Britain Winter meeting: "Our Primate Heritage, Our Primate Legacy". Oxford (UK). 8-11 September 2019. <https://www.efp-psgb2019.com/#portfolioModal6>

Courses

Chordate Muscle Evolution Workshop: Santiago, Chile. Instructor: Rui Diogo, Subject area: Evolutionary myology. December 2018.

Python Machine Learning in Biology: Arolithos, Crete. Instructor: Nicole Bennet, Subject area:

Applications of machine-learning techniques to biological questions. October 2018.

Mapping Trait Evolution: Institut Catalá de Paleontologia Miquel Crusafont and the Centre of Restauració i Interpretació Paleontologica. Instructor: Jeron Smaers. Subject area: Comparative methods applied to Macroevolution. June 2017.

Geometric Morphometrics and Phylogeny: Institut Catalá de Paleontologia Miquel Crusafont and the Centre of Restauració i Interpretació Paleontologica. Instructor: Chris Klingenberg. Subject area: Geometric morphometrics and comparative methods. September 12-16, 2015.

Data Science Specialization: Johns Hopkins University, Bloomberg School of Public Health
Instructors: Brian Caffo, Roger D. Peng, Jeff Leek. Subject area: Data Science 10 Feb-10 Jul.

Geometric Morphometrics in R: Institut Catalá de Paleontologia Miquel Crusafont and the Centre of Restauració i Interpretació Paleontologica. Instructor: Julien Claude Subject area: Geometric morphometrics in the R environment. 26-30 January 2015.

CIPB Summer School: Mathematical Modeling for Biologists. The Centre for Plant Integrative Biology, University of Nottingham Instructors: Nick Monk, Etienne Farcot, Sabine Fischer Subject area: Mathematical modeling applied to integrative systems biology. 14-17 July 2014.

Analysis of Organismal Form: Faculty of Life Sciences, University of Manchester Instructor: Prof. Chris Klingenberg Subject Area: Quantitative analyses of the size and shape of organisms or their parts. 5 November- 15 December 2012.

Geometric Morphometrics Workshop: Faculty of Odontology, Universidad de Chile, Subject Area: Geometrical Morphometrics and its applications in Biomedical Sciences, Anthropology and Archaeology. Course taught by Prof. Paul O'Higgins, Prof. Chris Klingenberg, and Dr. Martin Friess. Team Research Project (Proyecto Anillo) ACT-96. October 2011.

An Introduction to Geometric Morphometrics and its Applications in Biomedical Disciplines and Anthropology: a theoretical-practical course on Geometric Morphometrics taught by Dr. Germán Manríquez and Dr. Felipe Martínez. *Human Genetics Program*: ICBM, Faculty of Medicine, Universidad de Chile. August-September 2011.

Technical skills

Software:

Text: MS Office, OpenOffice, Latex, etc.

Statistics: Fluent in R and also trained in diverse statistical packages (e.g.: SPSS, STATA, NTSYS, PAST).

Geometric Morphometrics: Familiar with standard applications such as the TPS Series, Morphologika, Landmark Editor, Evan Toolbox and MorphoJ and R packages such as 'geomorph' and 'Morpho'.

Biomechanics: FEA (e.g. Abaqus, ANSYS, Vox-Fe) and MDA (e.g. GaitSym, Opensymm) techniques and skeletal stress analysis (BoneJ).

Bioinformatics: Familiar with genetic databases (e.g. NCBI) and phylogenetic analysis applications (PAUP, MEGA, PHYLIP, etc.)

Programming languages: R, Python, Matlab.

Imaging: Familiar with ImageJ, AVIZO, Seg3D, etc.

Field techniques: Use of GPS; knowledge GIS; basic knowledge of excavation techniques.

Techniques:

- Morphometrics.

- 2D (photography and X-rays) and 3D data (Microscribe and surface scanner, photogrammetry).

- Optical and Electronic microscopy.

- 3D image analysis and processing.
- Biomechanical analysis (beam theory, finite element analysis, multibody dynamics).
- Microwear analysis.
- Basic knowledge of molecular biology techniques such as DNA extraction, PCR and gel electrophoresis.
- Standard Osteological techniques
- Human and animal dissection experience.

Fieldwork San Pedro de Atacama, Chile. Survey and excavation, January-February 2012.

San Pedro de Atacama, Chile. Survey and excavation, January-February 2011.

Museum data collection 2015 - Zurich, Switzerland
2014 - Tervuren, Belgium
2012 - Monaco, Monaco
2012 - Paris, France
2012 - Moscow, Russia
2012 - San Pedro de Atacama, Chile
2011 - San Pedro de Atacama, Chile