

# Alejandro M. Andirkó

*Ph.D. student*

## PERSONAL DETAILS

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*Birth* September 3, 1994  
*Phone* 0034 622 38 99 88  
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## EDUCATION

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**Ph.D. student** 2018-  
*University of Barcelona: Cognitive Science and Language*  
Under the supervision of Prof. Cedric Boeckx

**MA. Cognitive Science and Language** 2016-2017  
*University of Barcelona*

**BA. Spanish Language and Literature** 2012-2016  
*University of Murcia*

## COURSES

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**Archaeological Science in the Post-Genome Era** 2018  
*University of Copenhagen, Natural History Museum*

**Analyses of genotyping and NGS data in medical and population genetics** 2018  
*University of Copenhagen*

## LANGUAGES

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Spanish (mother tongue)  
Hungarian (mother tongue)  
English (fluent)  
French (fluent)  
Catalan (basic)

## PUBLICATIONS

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- *Dosage analysis of the 7q11.23 Williams region identifies BAZ1B as a major human gene patterning the modern human face and underlying self-domestication* Matteo Zanella, Alessandro Vitriolo, **Alejandro Andirkó**, Pedro T Martins, Stefanie Sturm, Thomas O'Rourke, Magdalena Laugsch, Natascia Malerba, Adrianos Skaros, Sebastiano Trattaro, Pierre-Luc Germain, Marija Mihailovic, Giuseppe Merla, Alvaro Rada-Iglesias, Cedric Boeckx, Giuseppe Testa  
Science Advances. <https://doi.org/10.1126/sciadv.aaw7908> (2019)

- *Derived Homo sapiens cis-eQTL regulation: implications for brain evolution* **Alejandro Andirkó**, Cedric Boeckx  
BioRxiv. <https://www.biorxiv.org/content/10.1101/771816v1> (2019)
- *7q11.23 Syndromes Reveal BAZ1B as a Master Regulator of the Modern Human Face and Validate the Self-Domestication Hypothesis*. Matteo Zanella, Alessandro Vitriolo, **Alejandro Andirkó**, Pedro T Martins, Stefanie Sturm, Thomas O'Rourke, Magdalena Laugsch, Natascia Malerba, Adrianos Skaros, Sebastiano Trattaro", "Pierre-Luc Germain, Giuseppe Merla, Alvaro Rada-Iglesias, Cedric Boeckx, Giuseppe Testa  
BioRxiv. <https://doi.org/10.1101/570036> (2019)
- *Oxytocin and Vasopressin Receptor variants as a window onto the evolution of human prosociality*. Constantina Theofanopoulou\*, **Alejandro Andirkó\***, Cedric Boeckx.  
BioRxiv. <https://doi.org/10.1101/460584> (2018)

## TALKS

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- *Agent-based modelling and ordered steps towards modern linguistic complexity*  
Marcel Ruland, **Alejandro Andirkó**, Cedric Boeckx  
Protolang 6 (2019)
- *7q11.23 Syndromes Reveal BAZ1B as a Master Regulator of the Modern Human Face and Validate the Self-Domestication Hypothesis*. Alessandro Vitriolo, Matteo Zanella, Pedro Tiago Martins, Stefanie Sturm, Thomas O'Rourke, **Alejandro Andirkó**, Magdalena Laugsch, Natascia Malerba, Adrianos Skaros, Sebastiano Trattaro, Pierre-Luc Germain, Giuseppe Merla, Alvaro Rada-Iglesias, Cedric Boeckx, Giuseppe Testa  
Flash talk — EMBL. Reconstructing the Human Past - Using Ancient and Modern Genomics (2019)
- *A hypothesis concerning how the evolution of prosociality impacted vocal learning*. Pedro T. Martins, Thomas O'Rourke, **Alejandro Andirkó**, Stefanie Sturm, Cedric Boeckx  
Center for the Interdisciplinary Study of Language Evolution Inaugural Workshop (2019)
- *Rethinking neoteny and neuroplasticity in language evolution*. Bridget Samuels, Pedro Tiago Martins, Thomas O'Rourke **Alejandro Andirkó**, Saleh Alamri, Constantina Theofanopoulou, Cedric Boeckx.  
SLE Workshop: New Directions in Language Evolution. (2018)
- *The biocognitive 'guns, germs, and steel' underlying Homo sapiens' unique material culture*. **Alejandro Andirkó**, Saleh Alamri, Stefanie Sturm, Thomas O'Rourke, Pedro Tiago Martins, Cedric Boeckx.  
Evolang12 workshop: *The 'stuff' of language* (2018)

## POSTERS

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- *Sapiens derived cis-eQTL regulation in brain development and evolution* **Alejandro Andirkó**, Cedric Boeckx  
Ettore Majorana center (Erice). Brain and Behavior Evolution in Primates workshop (2019)

- *Complex interactions among language subcomponents* Thomas O'Rourke, **Alejandro Andirkó**, Stefanie Sturm, Pedro Tiago Martins, Juan Moriano, Sara Silvente i Font, Mireia Rumbo i Roig, Cedric Boeckx  
UBICS meeting (2019)
- *Identifying signals of neoteny in modern human evolution through paleogenomics*, **Alejandro Andirkó**, Cedric Boeckx  
EMBL. Reconstructing the Human Past - Using Ancient and Modern Genomics (2019)
- *7q11.23 Syndromes Reveal BAZ1B as a Master Regulator of the Modern Human Face and Validate the Self-Domestication Hypothesis*. Alessandro Vitriolo, Matteo Zanella, **Alejandro Andirkó**, Pedro Tiago Martins, Stefanie Sturm, Thomas O'Rourke, Magdalena Laugsch, Natascia Malerba, Adrianos Skaros, Sebastiano Trattaro, Pierre-Luc Germain, Giuseppe Merla, Alvaro Rada-Iglesias, Cedric Boeckx, Giuseppe Testa  
EMBL. Reconstructing the Human Past - Using Ancient and Modern Genomics (2019)
- *A functional dissection of the genetic circuits selected in Anatomically Modern Humans and inferred from the study of Neurodevelopmental Disorders*, Adrianos Skaros, Alessandro Vitriolo, Sebastiano Trattaro, Mateo Zanella, **Alejandro Andirkó**, Michael Boettcher, Cedric Boeckx, Giuseppe Testa  
EMBL. Reconstructing the Human Past - Using Ancient and Modern Genomics (2019)
- *Language-readiness: Descent, modification, and further modification*. **Alejandro Andirkó**, Thomas O'Rourke, Juan Moriano, Cedric Boeckx  
Center for the Interdisciplinary Study of Language Evolution Inaugural Workshop (2019)
- *Glutamatergic modulation of vocal learning circuits through the dopaminergic projections of the Periaqueductal Gray.*, Pedro T. Martins, Thomas O'Rourke, **Alejandro Andirkó**, Stefanie Sturm, Cedric Boeckx  
Language and Music in Cognition Spring School (2019)
- *Molecular evolution of human-specific facial traits and socio-cognitive profile: Insights from neurocrisopathies*. Matteo Zanella\*, Alessandro Vitriolo\*, **Alejandro Andirkó**, Nicolo Caporale, Adrianos Skaros, Cedric Boeckx, Giuseppe Testa.  
ESHE meeting (2018)
- *The symbolic species?* **Alejandro Andirkó**, Stefanie Sturm, Thomas O'Rourke, Pedro Tiago Martins, Cedric Boeckx.  
UBICS meeting (2018)
- *Differences on the OXTR between modern humans and extinct hominids: a window to our language-ready behavior*. **Alejandro Andirkó**, Constantina Theofanopoulou, Cedric Boeckx.  
Protolang5 (2017)

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## GRANTS AND AWARDS

- *Best Science Communication Video*. Thomas O'Rourke, Stefanie Sturm, **Alejandro**

**Andirkó**, Pedro Tiago Martins.  
UBICS (2019)

- *Predoctoral grant*  
Spanish Ministry of Science, Universities and Innovation (2018-2022)

## SCIENCE OUTREACH

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- *Participation in El Quiosco de la Investigación*  
Series of workshops that aim to bridge scientists and civil society  
Two sessions
- *It's not about cats*. Stefanie Sturm\*, Thomas O'Rourke\*, Pedro Tiago Martins\*, **Alejandro Andirkó\***  
Scientific journalism piece at Babel (2019)
- *¿Qué es la vida? El futuro de la biología, 75 años después de Schrödinger* **Alejandro Andirkó\***, Stefanie Sturm\*, Thomas O'Rourke\*, Pedro Tiago Martins\*, Cedric Boeckx.  
Scientific journalism piece at The Conversation (2018) (Spanish edition). Reappeared in El País, Cadena Ser and other national digital media.
- *Participation in Somos científicos*.  
Initiative that brings together high school teenagers and scientists in order to answer their questions  
2 weeks

### Intern

2016

*Asociación Arqueología de Guardia*

Arqueología de Guardia organizes cultural activities, science communication events, and educational workshops involving new findings in the fields of Archaeology, History and Cultural Heritage. As an intern, I participated in the organization and execution of some of these activities, including archaeological prospection, field analysis and communications for non-specialized public.

## MEMBERSHIPS

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- European Society for the Study of Human Evolution (ESHE)
- UBICS (University of Barcelona Institute of Complex Systems).

## SERVICE

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- Evolutionary Anthropology.  
Article reviewer
- Biolinguistics.  
Article reviewer
- UBICS PhD student Representative on the Board of Directors