

Borja Esteve-Altava, PhD

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EDUCATION

- 2013 PhD Biodiversity (*with the highest honors*). University of Valencia, Spain.
- 2008 MSc Biodiversity: Conservation and Evolution. University of Valencia, Spain.
- 2007 BSc Biological Sciences. University of Valencia, Spain.

PROFESSIONAL APPOINTMENTS

- 2018 Junior Leader Fellow, Institute of Evolutionary Biology (UPF-CSIC), Department of Experimental and Health Sciences, Pompeu Fabra University, Barcelona, Spain.
- 2015 Marie Skłodowska-Curie Fellow, Department of Comparative Biomedical Sciences, Royal Veterinary College, University of London, United Kingdom.
- 2015 Visiting Marie Skłodowska-Curie Fellow, Department of Anatomy, College of Medicine, Howard University, Washington, DC, United States of America.
- 2012 Writing-Up Fellow, Konrad Lorenz Institute for Evolution and Cognition Research, Altenberg, Austria.
- 2008 Research Assistant, Theoretical Biology Research Group, Cavanilles Institute of Biodiversity and Evolutionary Biology, University of Valencia, Spain.

GRANTS & FELLOWSHIPS

- 2018 Junior Leader Fellowship, "la Caixa" Banking Foundation.
- 2016 Co-PI, Innovations Program Award, The American Association of Anatomists.
- 2015 Marie Skłodowska-Curie Global Fellowship, European Union H2020 Framework.
- 2012 Writing-Up Fellowship, Konrad Lorenz Institute for Evolution and Cognition Research.

MANAGEMENT OF RESEARCH PROJECTS

Title: The evolutionary and mechanistic causes of senescence and its related phenotypes in vertebrates: a comparative genomics approach (PGC2018-101927-B-I00)

Role: Co-PI

Program: Proyectos de I+D de Generación del Conocimiento

Funder: Ministerio de Ciencia, Innovación y Universidades

Duration: 3 years (2019-2021)

Funding: 190,575 €

Title: Evolutionary roots of craniosynostosis (LCF/BQ/LI18/11630002)

Role: PI

Program: Junior Leader Fellowship

Funder: "la Caixa" Banking Foundation

Duration: 3 years (2018-2021)

Funding: 305,700 €

Title: Anatomical Network Analysis
Role: Co-PI
Program: Innovations Program
Funder: American Association of Anatomists
Duration: 3 years (2016-2019)
Funding: 50,000 \$

Title: Network analysis of musculoskeletal evolution and modularity during the fin-to-limb transition (grant number 654155)
Role: Beneficiary (supervisor: John R. Hutchinson; co-supervisor: Rui Diogo)
Program: Marie Skłodowska-Curie Actions
Funder: European Commission H2020 Framework
Duration: 3 years (2015-2018)
Funding: 251,000 €

Title: Network models of the skull
Role: PI
Program: Writing-Up Fellowship
Funder: Konrad Lorenz Institute for Evolution and Cognition Research
Duration: 6 months (2012)
Funding: 26,400 €

PARTICIPATION IN OTHER RESEARCH PROJECTS

Title: Cranial synostosis and anatomical network analysis for the formulation of an evolutionary model of morphological change
Role: Collaborator
PI: Diego Rasskin-Gutman (University of Valencia, Spain)
Funder: Ministerio de Economía, Industria y Competitividad (BFU2015-70927-R)
Duration: 2016 – 2020

Title: A multidisciplinary network analysis of musculoskeletal complexity, integration, modularity, and evolvability of the primate head and limbs
Role: Consultant
PI: Rui Diogo (Howard University) and Brian Villmoare (University of Nevada)
Funder: National Science Foundation (1516557)
Duration: 2015 – 2016 (extended)

EXPERIENCE ORGANIZING R&D ACTIVITIES

- 2016 Workshop Anatomical Network Analysis. 11th International Congress of Vertebrate Morphology, Washington, DC, USA.
- 2014 Symposium Perspectives in EvoDevo: the skull as a case study, Valencia, Spain.
- 2008 Memorial Pere Alberch: "the cradle of EvoDevo", Valencia, Spain

PUBLICATIONS

Refereed Journal Articles

- [27] **Esteve-Altava B**, Pierce SE, Molnar JL, Johnston P, Diogo R, Hutchinson JR. 2019. Evolutionary parallelisms of pectoral and pelvic network-anatomy from fins to limbs. *Science Advances* 5 (5): eaau7459. doi 10.1126/sciadv.aau7459.
- [26] Navarro-Díaz A, **Esteve-Altava B**, Rasskin-Gutman D. 2019. Disconnecting bones within the jaw-otic network modules underlies mammalian middle ear evolution. *Journal of Anatomy, Early View*. doi 10.1111/joa.12992.
- [25] Werneburg I, **Esteve-Altava B**, Bruno J, Torres-Ladeira M, Diogo R. 2019. Unique skull network complexity of *Tyrannosaurus rex* among land vertebrates. *Scientific Reports* 9: 1520. doi 10.1038/s41598-018-37976-8.
- [24] Diogo R, Molnar JL, Rolian C, **Esteve-Altava B**. 2018. First anatomical network analysis of fore- and hindlimb musculoskeletal modularity in bonobos, common chimpanzees, and humans. *Scientific Reports* 8: 6885. doi 10.1038/s41598-018-25262-6.
- [23] **Esteve-Altava B**, Molnar JL, Johnston P, Hutchinson JR, Diogo R. 2018. Anatomical network analysis of the musculoskeletal system reveals integration loss and parcellation boost during the fins-to-limbs transition. *Evolution* 72(3): 601-618. doi: 10.1111/evo.13430
- [22] Vance P, Esteve-Altava B, Molnar J, Villmoare B, Pettit A, Diogo R. 2018. Primate modularity and evolution: first anatomical network analysis of primate head and neck musculoskeletal system. *Scientific Reports* 8:2341. doi: 10.1038/s41598-018-20063-3.
- [21] Arnold P, **Esteve-Altava B**, Fischer MS. 2017. Musculoskeletal networks reveal topological disparity in mammalian neck evolution. *BMC Evolutionary Biology* 17: 251. doi: 10.1186/s12862-017-1101-1.
- [20] Molnar JL, **Esteve-Altava B**, Rolian C, Diogo R. 2017. Comparison of musculoskeletal networks of the primate forelimb. *Scientific Reports* 7: 10520. doi: 10.1038/s41598-017-09566-7.
- [19] **Esteve-Altava B**, Vallès-Català T, Guimerà R, Sales-Pardo M, Rasskin-Gutman D. 2017. Bone fusion in normal and pathological development is constrained by the network architecture of the human skull. *Scientific Reports* 7: 3376. doi: 10.1038/s41598-017-03196-9.
- [18] **Esteve-Altava B**. 2017. Challenges in identifying and interpreting organizational modules in morphology. *Journal of Morphology* 278 (7): 960–974. doi: 10.1002/jmor.20690.
- [17] **Esteve-Altava B**. 2017. In search of morphological modules: A systematic review. *Biological Reviews* 92 (3): 1332–1347. doi: 10.1111/brv.12284.
- [16] Molnar JL, Johnston P, **Esteve-Altava B**, Diogo R. 2017. Musculoskeletal anatomy of the pelvic fin of *Polypterus*: Implications for phylogenetic distribution and homology of pre- and postaxial pelvic appendicular muscles. *Journal of Anatomy* 230(4): 532–541. doi: 10.1111/joa.12573.
- [15] Diogo R, Bello-Hellegouarch G, Kohlsdorf T, **Esteve-Altava B**, Molnar JL. 2016. Comparative myology and evolution of marsupials and other vertebrates, with notes on complexity, Bauplan, and ‘scala naturae’. *Anatomical Record* 299: 1224–1255. doi: 10.1002/ar.23390.
- [14] Diogo R, Johnston P, Molnar JL, **Esteve-Altava B**. 2016. Characteristic tetrapod musculo-skeletal limb phenotype emerged more than 400 MYA in basal lobe-finned fishes. *Scientific Reports* 6: 37592. doi: 10.1038/srep37592.
- [13] Diogo R*, **Esteve-Altava B***, Smith C*, Boughner JC, Rasskin-Gutman D. 2015. Anatomical network comparison of human upper and lower, newborn and adult, and normal and abnormal limbs, with notes on development, pathology and limb serial homology vs. homoplasy. *PLoS ONE* 10: e0140030. doi: 10.1371/journal.pone.0140030. * co-first
- [12] **Esteve-Altava B**, Boughner JC, Diogo R, Villmoare BA, Rasskin-Gutman D. 2015. Anatomical network analysis shows decoupling of modular lability and complexity in

- the evolution of the primate skull. *PLoS ONE* 10: e0127653. doi: 10.1371/journal.pone.0127653.
- [11] **Esteve-Altava B**, Diogo R, Smith C, Boughner JC, Rasskin-Gutman D. 2015. Anatomical networks reveal the musculoskeletal modularity of the human head. *Scientific Reports* 5: 8298. doi:10.1038/srep08298.
- [10] **Esteve-Altava B**, Rasskin-Gutman D. 2015. EvoDevo insights from pathological networks: Exploring craniosynostosis as a developmental mechanism for modularity and complexity in the human skull. *Journal of Anthropological Sciences* 93: 1–15. doi: 10.4436/JASS.93001.
- [9] **Esteve-Altava B**, Marugán-Lobón J, Botella H, Rasskin-Gutman D. 2014. Random loss and selective fusion of bones originate morphological complexity trends in tetrapod skull networks. *Evolutionary Biology* 41: 52–61. doi:10.1007/s11692-013-9245-4.
- [8] **Esteve-Altava B**, Rasskin-Gutman D. 2014. Beyond the functional matrix hypothesis: A network null model of human skull growth for the formation of bone articulations. *Journal of Anatomy* 225: 306–316. doi:10.1111/joa.12212.
- [7] **Esteve-Altava B**, Rasskin-Gutman D. 2014. Theoretical morphology of tetrapod skull networks. *Comptes Rendus Palevol* 13: 41-50. doi: 10.1016/j.crpv.2013.08.003.
- [6] Rasskin-Gutman D, **Esteve-Altava B**. 2014. Connecting the dots: Anatomical network analysis in morphological EvoDevo. *Biological Theory* 9: 178–194. doi: 10.1007/s13752-014-0175-x.
- [5] **Esteve-Altava B**, Marugán-Lobón J, Bastir M, Botella H, Rasskin-Gutman D. 2013. Grist for Riedl's mill: A network model perspective on the integration and modularity of the human skull. *Journal of Experimental Zoology B (Molecular and Developmental Evolution)* 320: 489–500. doi: 10.1002/jez.b.22524.
- [4] **Esteve-Altava B**, Marugán-Lobón J, Botella H, Rasskin-Gutman D. 2013. Structural constraints in the evolution of the tetrapod skull complexity: Williston's Law revisited using network models. *Evolutionary Biology* 40: 209–219. doi: 10.1007/s11692-012-9200-9.
- [3] Rasskin-Gutman D, Elez J, **Esteve-Altava B**, López-Martínez N. 2013. Reconstruction of the internal structure of the pore system of a complex dinosaur eggshell (*Megaoolithus siruguei*). *Spanish Journal of Paleontology* 28: 61–68. ISSN: 2255-0550.
- [2] **Esteve-Altava B**, Marugán-Lobón J, Botella H, Rasskin-Gutman D. 2011. Network models in anatomical systems. *Journal of Anthropological Sciences* 89: 175–184. doi:10.4436/jass.89016
- [1] Rasskin-Gutman D, **Esteve-Altava B**. 2008. The multiple directions of evolutionary change. *BioEssays* 30: 521–525. doi:10.1002/bies.20766.

Book Chapters

- [4] **Esteve-Altava B**, Rasskin-Gutman D. 2018. Anatomical network analysis in evo-devo. In: Nuño de la Rosa L, Müller G (Ed) *Evolutionary Developmental Biology*. Springer, Cham. p 1-19.
- [3] Rasskin-Gutman D, **Esteve-Altava B**. 2018. Concept of burden in evo-devo. In: Nuño de la Rosa L, Müller G (Ed) *Evolutionary Developmental Biology*. Springer, Cham. p 1–11.
- [2] Bruner E, **Esteve-Altava B**, Rasskin-Gutman D. 2018. Chapter 13. Networking brains: modeling spatial relationships of the cerebral cortex. In Bruner E, Ogihara N, Tanabe HC (Ed) *Digital Endocasts: From Skulls to Brains*. Springer Japan, Tokyo. p 191–204.
- [1] **Esteve-Altava B**, Rasskin-Gutman D. 2009. Tamaño y complejidad: Generalizaciones evolutivas del cambio morfológico. In Dopazo H, Navarro A (Ed) *Adaptación y evolución: 150 años después del Origen*. Obrapropia Editorial, Valencia. p 229–237.

Conference Proceedings

- [2] **Esteve-Altava B**, Marugán-Lobón J, Botella H, Rasskin-Gutman D. 2009. Human skull network models. In Palmqvist P, Pérez-Claros JA (Eds.) *Darwin, la teoría de la evolución y la paleontología*. Pp: 183–186. ISBN 978-84-9747312-5.
- [1] Rasskin-Gutman D, **Esteve-Altava B**. 2009. Modeling EvoDevo: Broken hierarchies and multiple scales of organization and complexity. In Sinclair RM, Klaus MS (eds), *Multiscale phenomena in biology. AIP Conference Proceedings* 1167: 43–56. doi: 10.1063/1.3246414.

Cover Images

Human skull network in *Biological Theory*, Vol. 9 (2014); Springer.

CONFERENCE PARTICIPATION

Keynote Speaker

- 2020 Anatomical Network Analysis in Evolution. 62nd Phylogenetic Symposium Macro-evolutionary Dynamics: Current Approaches and Future Directions. Köln, Germany.
- 2015 Modelos de redes en morfología: pasado, presente y future. XVI Congreso Argentino de Herpetología, Tucuman, Argentina.

Discussant

- 2018 The conceptual legacy of "On Growth and Form": interdisciplinary perspectives Organized by Alan C. Love, Sahotra Sarkar, William C. Wimsatt. 14-16 June. University of St. Andrews, Scotland.

Speaker

- 2017 Network models: connecting anatomy to systems biology. Experimental Biology Meeting. Chicago IL, USA. FASEB Journal 31:386.2.
- 2016 Networks in morphology. GOEvol V Symposium, Göttingen, Germany.
- 2016 Major challenges in vertebrate morphology: macroevolution, variation and human birth defects. 11th International Congress of Vertebrate Morphology. Washington DC, USA.
- 2015 Evolution, biological complexity, evolvability, networks, chaos versus order, and the notion of biological 'progress'. Re-conceptualizing the origin of life. Carnegie Institution. Washington DC, USA.
- 2014 Evolution of morphological complexity and modularity in the primate skull using anatomical network analysis. 5th Meeting of the European Society for Evolutionary Developmental Biology. Vienna, Austria.
- 2013 Using network models to tackle morphological integration and modularity. 10th International Congress of Vertebrate Morphology. Barcelona, Spain.
- 2010 Network models in vertebrate skull morphology. 9th International Congress of Vertebrate Morphology. Punta del Este, Uruguay.
- 2009 The human skull network model. XXV Jornadas de la Sociedad Española de Paleontología. Ronda, Spain.

Posters

- 2018 Comparative anatomy in the light of network thinking. 7th Meeting of the European Society for Evolutionary Developmental Biology. Galway, Ireland.
- 2017 Can anatomical network analysis help explain anatomical evolution in marsupials and placentals? II Biennial Meeting Pan-American Society for Evolutionary Developmental Biology. Calgary, Canada.
- 2017 Exploring the mammalian middle ear evolution with anatomical network analysis. III Iberian Symposium on Geometric Morphometrics. Girona, Spain.
- 2017 A major paradigm shift in fish, tetrapod and limb evolution: characteristic tetrapod musculoskeletal limb phenotype emerged more than 400 MYA in basal lobe-finned fishes. Experimental Biology Meeting. Chicago IL, USA. FASEB Journal 31:577.13.
- 2016 Structure & motion over the fin-to-limb transition. 11th International Congress of Vertebrate Morphology. Washington DC, USA.
- 2014 Anatomical network analysis in morphological EvoDevo. 5th Meeting of the European Society for Evolutionary Developmental Biology. Vienna, Austria.
- 2011 Skull evolution *in silico*: network simulations of Williston's law. III Congreso de la Sociedad Española de Biología Evolutiva. Madrid, Spain.
- 2009 Network models in skull morphology, evolution, and development. II Congreso de la Sociedad Española de Biología Evolutiva. Valencia, Spain.

Contributions as co-author

- 2018 Sutures as developmental constraints for morphological evolution. 7th Meeting of the European Society for Evolutionary Developmental Biology. Galway, Ireland.
- 2018 Key events in mammalian jaw and ear evolution. 7th Meeting of the European Society for Evolutionary Developmental Biology. Galway, Ireland.
- 2018 Anatomical Network Analysis of the musculoskeletal system of the primate head and neck. 87th Annual Meeting of the American Association of Physical Anthropology. Austin, TX, USA.
- 2017 Did extant tree sloths evolve divergent musculoskeletal organization of the neck to cope with mechanical head support in inverted locomotion? 110th Annual Meeting of the German Zoological Society. Bielefeld, Germany.
- 2017 Anatomical Networks Analysis of the skull roof of placoderms. 14th International Symposium on Early and Lower Vertebrates. Chęciny, Poland.
- 2017 Estudio de los patrones de conectividad del techo craneal de los primeros vertebrados con mandíbula (Placodermi: Gnathostomata). XV Encuentro de Jóvenes Investigadores en Paleontología. Pómpal, Portugal. [Best talk award]
- 2016 Can human cranial developmental malformations be a model for evolutionary change? 6th Meeting of the European Society for Evolutionary Developmental Biology. Uppsala, Sweden.
- 2016 Surprising developmental, evolutionary, pathological and comparative perspectives on serial homology of the head and limbs/fins: from dissimilarity to derived serial similarity. 6th Meeting of the European Society for Evolutionary Developmental Biology. Uppsala, Sweden.
- 2016 Major challenges in vertebrate morphology: Ecomorphology, methods of 2D, 3D, and 4D visualization, and the use of multimedia and network tools. 11th International Congress of Vertebrate Morphology. Washington DC, USA.
- 2016 Serial homology vs derived similarity of pectoral and pelvic appendages: comparative, genetic and evo-devo studies in fish, tetrapods, and human birth defects. 11th International Congress of Vertebrate Morphology. Washington DC, USA.
- 2016 Synostosis and vertebrate skull evolution: from bone networks to bone shape. 11th International Congress of Vertebrate Morphology. Washington DC, USA.
- 2015 Red in Tooth and Jaw: Mechanisms coordinating the evo-devo of the mammalian face. 1st Meeting of the Pan-American Society for Evolutionary Developmental Biology. Berkeley, USA.

- 2015 Anatomical network analysis of primate skull morphology. Annual Meeting of the Experimental Biology Society. Boston, USA. FASEB Journal 29:867.3.
- 2013 Craniosynostosis and the evolution of the human skull. IV Congreso de la Sociedad Española de Biología Evolutiva. Barcelona, Spain.
- 2013 EvoDevo, modularity, and developmental constraints: The tetrapod skull. 10th International Congress of Vertebrate Morphology. Barcelona, Spain.

INVITED TALKS

- 2018 Network thinking in anatomy and the evolutionary roots of craniosynostosis. Centro Andaluz de Biología del Desarrollo, Sevilla, Spain.
- 2012 A network model of the human skull. KLI Colloquia, Konrad Lorenz Institute, Austria.

DEPARTMENT TALKS

- 2018 Connecting anatomy to systems biology. Goswami Lab, Department of Life Sciences, The Natural History Museum, United Kingdom.
- 2017 Looking at anatomy through the lens of systems biology. Department of Comparative Biomedical Sciences, Royal Veterinary College, United Kingdom
- 2017 Connecting anatomy to systems biology. Department of Vertebrate Paleontology. Museum of Comparative Zoology, Harvard University, USA.
- 2012 Network models in morphology: past, present and future. Department of Theoretical Biology, University of Vienna, Austria.
- 2012 Introduction to a modelling tool for life & social sciences. Konrad Lorenz Institute, Austria.

TEACHING EXPERIENCE

- 2019 Invited professor (0.15 ECTS). Numeric Analysis of Morphological Diversity, Inter-University Master of Biological Anthropology. University of Barcelona
- 2018 Instructor (2.5 ECTS). Anatomical Network Analysis. Transmitting Science & Institut Català de Paleontologia Miquel Crusafont.
- 2017 Instructor (2.5 ECTS). Introduction to network analysis in life sciences. Transmitting Science & Institut Català de Paleontologia Miquel Crusafont.
- 2016 Instructor (2.5 ECTS). Introduction to network analysis in life sciences. Transmitting Science & Institut Català de Paleontologia Miquel Crusafont.
- 2015 Instructor (2.5 ECTS). Network tools in biosciences. Transmitting Science & Centre de Restauració i Investigació Paleontològica.
- 2014 Instructor (2.5 ECTS). Network tools in biosciences. Transmitting Science & Centre de Restauració i Investigació Paleontològica.

MENTORSHIP

- 2019 Master Project co-tutor. Ms. Hiu Wai Lee. Network analysis of crocodylians evolution. Imperial College of London & Natural History Museum London, United Kingdom.
- 2018 Master Project co-tutor. Mr. Jake Horton. Network analysis of crocodylians evolution. Imperial College of London & Natural History Museum London, United Kingdom.
- 2017 Master Project co-tutor. Mr. Fernando Antonio Martín Arnal. Networks analysis of the placoderms cephalic shield: evolutionary implications. University of Valencia, Spain.
- 2016 PhD co-supervisor. Mr. Aitor Navarro Díaz. Programa de Doctorado Biodiversidad y Biología Evolutiva (03101), University of Valencia, Spain. Expected finalization 2022.

PEER-REVIEWER SERVICE

American Journal of Primatology (2017)
BMC Frontiers in Zoology (2017)
Book chapters (2016, 2016)
Journal of Anatomy (2017)
Journal of Developmental Biology (2019)
Journal of Experimental Zoology Part B (2014)
Journal of Morphology (2015)
Palaentology (2019)
Paleobiology (2015)
Peerage of Science (2014)
Proceedings of the Royal Society B (2017, 2018, 2019)
Science Advances (2018)
Scientific Reports (2015, 2016, 2016, 2016, 2018)

EXTRA TRAINING

2019 Geometric Morphometrics in R by Dr. Julien Claude. Transmitting Science, Capellades, Barcelona, Spain. 40 hours on-site.
2018 Mapping Traits Evolution by Dr. Jeroen B. Smaers. Transmitting Science, Capellades, Barcelona, Spain. 32 hours on-site.
2014 The Data Scientist's Toolbox. Coursera Online course by Johns Hopkins University.
2010 Geometric Morphometrics and Phylogeny by Dr. Christian P. Klingenberg. Transmitting Science & Institut Català de Paleontologia, Cerdanyola del Vallès, Spain. 34 hours on-site.
2007 Mathematics and Biology by Dr. Bela Mulder and Dr. Christine Dillmann. Erasmus Intensive Program. AgroParisTech, Paris, France. 68 hours on-site.
2006 Origins of Life and Life in Space by Dr. Marie Christine Maurel. European Summer University Program. Observatoire Océanologique, Laboratoire Arago, Banyuls sur-mer, France. 68 hours on-site.

OUTREACH & PUBLIC ENGAGEMENT

2018 Researcher Association Profiles. Royal Veterinary College. <https://www.rvc.ac.uk/research/researchers/researcher-association/case-studies/borja-esteve-altava>.
2017 Author blog cienciapaladina.com. Public engagement on evolution in Spanish.
2014 Participation in Biotweeps: a tweeter initiative to promote science.
2013 Scientific Workshop for Kids. A volunteer activity that introduces children into scientific thinking. Castellón, Spain.

MEDIA COVERAGE

2019 News. La Vanguardia, El Periodico de Catalunya, LaSexta, SINC (May 9th). Cómo evolucionaron las extremidades de los vertebrados a partir de las aletas de los peces. Covering, Esteve-Altava et al. Evolutionary parallelisms of pectoral and pelvic network-anatomy from fins to limbs. Science Advances 5 (5): eaau7459. doi 10.1126/sciadv.aau7459.
2019 News. Der Standard (February 7th). Tyrannosaurus rex besaß einen einzigartigen Schädel. doi 10.1038/s41598-018-37976-8.
2019 Media coverage in AlphaGalileo, FOCUS Online, Informationsdienst Wissenschaft, Jura Forum, Long Room, N-TV, Phys.org, Scinexx, VBIO of Werneburg et al. 2019.

- Unique skull network complexity of Tyrannosaurus rex among land vertebrates. Scientific Reports 9: 1520.
- 2018 News. El Periódico Mediterráneo (November 6th). El investigador de Castellón Borja Esteve recibe una beca Junior Leader de la Caixa (https://www.elperiodicomediterraneo.com/noticias/gentedecastellon/investigador-castellon-borja-esteve-recibe-beca-junior-leader-caixa_1182614.html)
- 2016 Press release. PRL0G. Basic configuration of our limbs appeared more than 400 million years ago, in fish. Featuring our work published in Scientific Reports (doi: 10.1038/srep37592)
- 2015 Interview (16/7/2015). Revista MÈTODE (ISSN 2174-9205). “Diego Rasskin y Borja Esteve: «Aportamos una idea moderna a una vieja idea anatómica del siglo XIX»”
- 2015 News. Anatomy Now. A New Look at the Human Head. Featuring our work published in Scientific Reports (doi:10.1038/srep08298)
- 2015 News. Periódico Levante-EMV. La cabeza es una caja de diez módulos. Featuring our work published in Scientific Reports (doi:10.1038/srep08298)
- 2015 Corporación de Radio y Televisión Española (RTVE.es digital). Una herramienta de análisis matemático desvela la estructura modular de la cabeza humana. Featuring our work published in Scientific Reports (doi:10.1038/srep08298)
- 2015 News. Science 2.0. Your Skull: Now An Extended Network Structured In Ten Modules. Featuring our work published in Scientific Reports (doi:10.1038/srep08298)
- 2015 News. MedicalXpress. Researchers describe the modular anatomical structure of the human head. Featuring our work published in Scientific Reports (doi:10.1038/srep08298)
- 2015 News. ScienceDaily. Modular anatomical structure of human head described for first time Featuring our work published in Scientific Reports (doi:10.1038/srep08298)

TRANSFERABLE SKILLS

Programming: R, Matlab
Network analysis: R, Pajek, NWB Tool
Phylogenetic analysis: R, Mesquite
Geometric morphometrics: R, MorphoJ
Image software: Photoshop, Gimp, Illustrator, Inkscape, ImageJ
Statistic software: R, SPSS, Excel
OS: Mac, Windows, Linux

PROFESSIONAL MEMBERSHIPS

- 2018 “la Caixa” Alumni Association
2015 Marie Curie Alumni Association
2014 European Society for Evolutionary Developmental Biology
2013 American Association of Anatomists
2010 International Society of Vertebrate Morphology
2009 Spanish Society for Evolutionary Biology

LANGUAGES

Spanish and Catalan (native); English (fluent)