

# CURRICULUM VITAE: Alexandre Antonelli

*My passion is nature, and my mission is to **stop biodiversity loss**. To tackle this major challenge, I study the distribution and evolution of species, develop methods to speed up scientific discovery and work with bright people around the world. My focus is on the tropics, where most species occur and the threats are most acute.*



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## EMPLOYMENT

### Current:

- **Director of Science – Royal Botanic Gardens, Kew (Feb 2019 – present)**  
RBG Kew is the world's leading botanical garden in terms of research and collections of plants and fungi. My role entails leadership and management across the entire Science Directorate and scientific collections, including the library, arts and archives, at Kew Gardens, Wakehurst and Madagascar.
- **Full Professor in Systematics and Biodiversity – University of Gothenburg (Jun 2015 – present)**  
Leader of an active and cross-disciplinary research group in evolutionary biology, supervisor of several students and post-docs, and lecturer in courses at basic and advanced levels.
- **Chairman and founder – [knowme.earth](https://www.knowme.earth) (2015 – present)**  
Innovation company developing mobile applications for biodiversity, focused on the logging, identification, sharing and use of species observations by citizens and scientists.

### Previous:

- Founder & Director – Gothenburg Global Biodiversity Centre (Jan 2017 – Mar 2019)
- Scientific Curator – Gothenburg Botanical Garden (Aug 2010 – Jan 2019)
- Science Advisor – Universeum Science Centre (Jan 2016 – Dec 2018)
- Cisneros Visiting Scholar – Harvard University (Jan 2018 – Jul 2018)
- Associate Professor and Senior Lecturer – University of Gothenburg (Apr 2014 – Jun 2015)
- Researcher – University of Gothenburg (Jan 2012 – Apr 2014)
- Associate staff member – Panama Canal Project (Sep 2011 – Dec 2016)
- Post-doctoral Fellow – Institute of Systematic Botany, University of Zurich (Jan 2009 – Jul 2010)
- Assistant teacher for basic and advanced courses – Botanical Institute, University of Gothenburg (July 2003 – November 2008)
- Field assistant – Latnjajaure Field Station, Abisko (July 2001)
- Short-term employments (language interpreter, computer programmer, divemaster, waiter etc) in the UK, France, Mexico, Honduras, Brazil, Sweden (<2001)

## PRIZES AND DISTINCTIONS

- 2017–2018 Cisneros Visiting Scholar, DRCLAS, Harvard University (2018)
- 'Sweden's 100 coolest researchers', Swedish Science Festival (2017)
- Future Research Leader, Foundation for Strategic Research (SSF), Sweden (2016)
- Ebbe Nielsen Award, GBIF, 2nd prize (2016) [with A. Zizka and D. Silvestro]
- Elected member of the Young Academy of Sweden (2016–2021)
- Elected member of the Royal Society of Arts and Sciences in Gothenburg (2016–)
- Elected member of the Young Academy of Europe (2013–)
- The Faculty of Science Research Award, University of Gothenburg (2015)
- Wallenberg Academy Fellow, Knut and Alice Wallenberg Foundation (2014)

## EDUCATION

- PhD, University of Gothenburg (Jul 2003 – Nov 2008; awarded 03 Feb 2009). Title: "Spatiotemporal Evolution of Neotropical Organisms: New Insights into an Old Riddle".
- MSc, Biology, University of Gothenburg, Sweden (2003)
- Undergraduate studies in biology, University of Geneva (1997, 2 weeks)
- Undergraduate studies in biology (1996, 6 months). Universidade Estadual de Campinas, Brazil

## PUBLICATION SUMMARY

**7,238 citations, h-index: 37, i10-index: 91**

133 peer-reviewed publications in journals and books, including in several *Nature* journals, *Science*, *PNAS*. Selected and full list of publications at end of CV; for current statistics please visit <http://tiny.cc/antonelli>

KEYWORDS: BIODIVERSITY – EVOLUTION – BIOGEOGRAPHY – NEOTROPICS – PHYLOGENETICS

## NEW TAXA NAMED

- *Ciliosemina* Antonelli (Rubiaceae)
- *Ciliosemina pedunculata* (H.Karst.) Antonelli (Rubiaceae)
- *Ciliosemina purdieana* (Wedd.) Antonelli (Rubiaceae)
- *Cordia montana* C. H. Perss., Delprete & Antonelli (Rubiaceae)
- In honour: *Siphocampylus antonellii* Lagom. & D. Santam. (Campanulaceae)

## EDITORIAL POSITIONS

- Associate Editor, *Systematic Biology* (2015 – present)
- Associate Editor, *Journal of Biogeography* (2015 – 2019)
- Associate Editor, *Journal of Systematics and Evolution* (2014 – 2020)
- Senior editor for book commissioned by Wiley: Hoorn, C., Perrigo, A. & Antonelli, A. (2018) *Mountains, Climate and Biodiversity*. Wiley-Blackwell, pp 544.
- Associate Editor, *Botanical Journal of the Linnean Society* (2011–2016)
- Associate Editor, *PhytoTaxa* (2011–2016)
- Main Editor for special volume of *Botanical Journal of the Linnean Society* (2012) (with Toby Pennington, Colin Hughes and Michael Fay)

## FUNDING AWARDED (SELECTION; c. €8.3M in last 8 years as PI, €8m as Co-I)

As Principal Investigator:

- Swedish Research Council; “Online Phylogenetics: Integrating genomic and single gene data in real time” (€460,000; 2020–2023)
- Kew Foundation; support package for developing an individual research programme at the Royal Botanic Gardens, Kew from philanthropic sources (€1,738,000; 2019–2022)
- Biodiversity & Ecosystem Services in a Changing Climate; BioDem: Assessing the link between biodiversity and democracy; Co-applicants: Allison Perrigo, Alexander Zizka, Staffan Lindberg (€14,000; 2018–2019)
- Biodiversity & Ecosystem Services in a Changing Climate; Co-applicant: Allison Perrigo (€40,000; 2018–2019)
- Biodiversity and Ecosystem Services in a Changing Climate; postdoc grant; “Integrating past and future models to mitigate the impact of global change on biodiversity”; Co-applicants: Christine Bacon, Rutger Vos, Johan Ekroos, Niklas Wahlberg (€13,000; 2018–2020)
- University of Gothenburg, Faculty of Science Sabbatical Programme (€110,000; 2018–2019)
- Harvard University, David Rockefeller Center for Latin American Studies; guest professorship (€22,000; Jan-Jun 2018)
- Faculty of Sciences, University of Gothenburg; sabbatical program (€110,000; Jan-Jun 2018)
- Wenner-Gren Foundation; sabbatical program (€13,000; Jan-Jun 2018)
- Swedish Foundation for Strategic Research, Future Research Leaders; “New tools to study and protect biodiversity” (€1,130,000; 2017–2021)
- Gothenburg Global Biodiversity Centre (€165,000; 2017-2019)
- Biodiversity and Ecosystem services in a Changing Climate (€19,000; 2017)
- Biodiversity and Ecosystem services in a Changing Climate (€37,000; 2016–2018)
- European Research Council Proof of Concept; “BioNote – A crowdsourcing platform for identifying and learning about all species on Earth” (€150,000; 2016)
- SciLifeLab; “Testing Traditional Plant Knowledge with Phylogenomics” (€28,000; 2015)
- Swedish Research Council; “Assessing biodiversity: Beyond the taxonomic impediment” (€377,000; 2016–2019)
- Wallenberg Academy Fellowship; “The rise and fall of species” (€706,000; 2015–2020)

- Infrastructure grant, Faculty of Sciences, University of Gothenburg (€38,000; 2015)
- The Faculty of Sciences Research Award, University of Gothenburg (€24,000; 2015)
- Strategic funding from the University of Gothenburg (€353,000; 2015–2020)
- Gothenburg Centre for Advanced Studies in Science and Technology (€5,000; 2015)
- Infrastructure grant, Faculty of Sciences, University of Gothenburg (€47,000; 2014)
- SciLifeLab Bioinformatics Long-term Support (500 hours of bioinformatics support; “Next-Gen Phylogenetics”)
- European Research Council Starting Grant; “The Past, Present and Future of Neotropical Biodiversity” (€1,500,000; 2013–2017)
- Strategic funding from the University of Gothenburg (€354,000; 2013–2017)
- Carl Tryggers Stiftelse for a post-doc and equipment (€28,000; 2013)
- Swedish Research Council; “Neotropical Diversification: When, Where and How?” (€452,000; 2012–2015)
- Carl Tryggers Stiftelse (€31,000) and Wenner-Gren (€34,100) for post-docs, The Johan & Jacob Söderbergs Foundation (€11,000); Helge Axson Johnson (€5,700) and Wilhelm and Martina Lundgren (€1,360) for sequencing; Adlebert Research Foundation (€2,000) and Wenner-Gren (€1,360) for travel (2012)
- Carl Tryggers Foundation (€31,300) for research; the Royal Society of Arts and Sciences in Göteborg (€3,300) for fieldwork; Längmanska Kulturfonden (€3,300) for conference costs; Martina Lundgren (€360) and Helge Axson Johnsons Foundation (€3,300) for equipment (2011)
- The Royal Swedish Academy of Sciences (€16,900) for fieldwork; The Royal Society of Arts and Sciences in Göteborg (€4,100) for fieldwork; Lars Hiertas Minne (€2,750) for equipment; Wenner-Gren (€1,540) for conference costs; Wilhelm and Martina Lundgren (€1,650) for research costs; Systematics Association (€1,900) for equipment (2010)

#### As co-applicant:

- European Research Council, Advanced Grant; main applicant Catherine Graham (€2,500,000)
- European Training Network/ITN H2020; main applicant Hugo de Boer (€4,062,035)
- Swedish Research Council; main applicant Christine Hansen (€556,000)
- Vinnova; main applicant Alexander Eiler (€28,000; 2017)
- Lundbeck foundation; main applicant Nina Rønsted (€225,000; 2015–2016)
- Carlsberg foundation; main applicant Nina Rønsted (€175,000; 2012–2013)
- Freja Stipendium; main applicant Nina Rønsted (€309,000; 2012–2013)
- National Natural Science Foundation of China; main applicant Qjang Zhang (€27,200; 2013–2015)
- Venezuelan Research Council; main applicant Mauricio Bermudez (€54,000; 2013–2015)

#### PEER REVIEWS COMPLETED

*African Journal of Microbiology Research; American Journal of Botany; **American Naturalist**; Annals of Botany; Annali Botanici Fennici; AoB PLANTS; Applied Vegetation Science; Arthropod-Plant Interactions; Australian Journal of Botany; **Biological Journal of the Linnean Society**; Biological Reviews; Biotropica; Botanical Journal of the Linnean Society; **BMC Biology**; BMC Plant Biology; Brittonia; Cambridge University Press; Cladistics; Ecography; **Ecology Letters**; **Evolution**; Evolutionary Ecology; Elsevier Academic Press; Frontiers of Biogeography; Frontiers in Ecology and Evolution; Frontiers in Genetics; **Gene**; Geobiology; Geological Journal; **Global Ecology and Biogeography**; **Heredity**; Journal of Biogeography; Journal of Evolutionary Biology; Journal of Geography and Regional Planning; Landscape and Urban Planning; **Methods in Ecology and Evolution**; **Molecular Ecology**; Molecular Ecology Resources; Molecular Phylogenetics and Evolution; Natur och Kultur; **Nature**; **Nature Communications**; **Nature Ecology and Evolution**; **New Phytologist**; Nordic Journal of Botany; Oecologia; Organisms Diversity and Evolution; Perspectives in Plant Ecology, Evolution and Systematics; PhytoTaxa; Plant Systematics and Evolution; **PLoS Biology**; PLoS One; **Proceedings of the National Academy of Sciences of the USA**; **Proceedings of the Royal Society B**; Quaternary Science Reviews; Regnum Vegetabile; Rodriguesia; Scientia Danica Series B; Scientific Reports; **Systematic Biology**; Systematic Botany; Taxon; **Trends in Ecology and Evolution**.*

## PRESENTATIONS

- **142** oral presentations at conferences and universities around the world: **76** as invited speaker, **18** as invited keynote speaker, **2** as invited plenary speaker and **2** as invited panellist/participant.
- **Over 80** popular science contributions (talks, popular science articles, public blogs, movies)

## TEACHING EXPERIENCE

- Biogeography: explaining the geographical distribution of organisms, In: Introduction to Evolutionary Biology, Harvard University, USA. (Invited recorded lecture; PhD course; 2020)
- Evolutionary Biogeography: Biodiversity Data from Field to Yield, Natal, Brazil (Course leader; PhD course; 2018)
- Biogeography, In: Plant Diversity and Evolution, Harvard University, USA. (Invited lecture; PhD course; 2018)
- Biogeography, University of Aarhus, Denmark (Invited lectures; PhD course; 2014, 2018)
- Biodiversity Data in Ecology and Biogeography (workshop), University of Kiel, Germany. Botanikertagung (with Alexander Zizka; 2017).
- Discovery club for 4<sup>th</sup> and 5<sup>th</sup> classes (c. 10–12 years-old), arranged by the Faculty of Sciences, University of Gothenburg (2016)
- MSc/PhD workshops: Academic Writing (2015 onwards)
- Diversity in Time and Space, Nordic Academy of Biodiversity and Systematic Studies (MSc/PhD course; 2015–2017)
- Competition for 5<sup>th</sup> classes (~10/11 years-old): "Which plant is this?" Co-arrangement with Gothenburg Botanical Garden (2015–2016)
- Annual course for teachers in Sustainable Development (ca. 70-100 students/lecture), Universeum Science Centre & University of Gothenburg (2014–present)
- BIO217: Evolutionary Biology, First cycle, University of Gothenburg (2014–2015)
- Photography for Biologists, University of Gothenburg (course leader together with Fredrik Plejel; PhD course; 2014)
- Molecular Dating, Natural History Museum of Denmark (PhD course; 2013, 2015)
- Biogeography and Macroecology, University of Aarhus, Denmark (PhD course; 2014)
- Advanced methods in Neotropical Biogeography. Center for the study of biodiversity in Amazonia, Kourou, French Guiana (PhD course; 10–12 October 2013)
- Phylogenetic Systematics and Molecular Dating, Natural History Museum of Denmark, Copenhagen (PhD course; 2013)
- DNA Barcoding, Uppsala University (Seminar at PhD course; 2012)
- Tropical Biodiversity, University of Gothenburg (Seminars at PhD course; 2010, 2012)
- Plant Diversity in the Tropics, Seminars in Gothenburg and field work in Ecuador (PhD course; 2010)
- Angiosperm Plant Families, University of Zurich (PhD course; 2009)
- Phylogeny and classification of Angiosperms, UNICAMP, Brazil (seminars at PhD course; 2008)
- Undergraduate courses: Floristics (basic and advanced levels), Biological Conservation, Ecology, Morphology & Systematics, Plant Diversity and Systematics, Systematic Biology. University of Gothenburg (2003–2008)

## SUPERVISORY ROLES

- As main supervisor/mentor:  
2 post-docs, 1 PhD student (current); 11 post-docs, 4 PhD students, 4 MSc students (previous)
- As co-supervisor/mentor:  
11 PhD students (current); 2 post-docs, 20 PhD students, 8 MSc students (previous)

## POSTGRADUATE AND CAREER DEVELOPMENT COURSES

- Coaching Your Team, Harvard University (2018)
- Delegating Responsibilities, Harvard University (2018)
- Making Feedback Work, Harvard University (2018)
- Fieldwork Safety and Best Practices, Harvard University (2018)

- Academic Leadership, Swedish Foundation for Strategic Research (2017–2019)  
[Extensive training programme in leadership in science and innovation, co-taught by the Swedish Defence University, including trips to study leadership in Singapore, China and Japan]
- Coaching in Academic Situations, University of Gothenburg (2015)
- Teaching and Learning in Higher Education: applied analysis, University of Gothenburg (2014)
- Supervision for the Experienced Supervisor in Third Cycle Education advanced level, University of Gothenburg (2013)
- Supervision in Postgraduate Programmes, advanced level, University of Gothenburg (2013)
- Teaching and Learning in Higher Education, basic level, University of Gothenburg (2012)
- Plant Systematics, University of Gothenburg (2007)
- Botanical Latin, University of Vienna (2006)
- Biogeography, University of Gothenburg (2006)
- Phylogenetic Systematics and Historical biogeography, University of Copenhagen (2005)
- Algae, University of Gothenburg (2005)
- Functional Plant Anatomy, (2005) University of Gothenburg
- Pedagogy, within Introductory course for PhD students (2004) University of Gothenburg
- Teaching science at undergraduate level (2003) University of Gothenburg
- Botanical nomenclature (2003) University of Gothenburg
- Plant geography (2003) University of Gothenburg
- Field ecology (2004) University of Gothenburg

## RESEARCH EXPERIENCE AND TECHNICAL SKILLS

- Specimen collection, identification, and databasing (mainly plants; but also insects, lizards and frogs; totalling >2,000 own specimens)
- Extensive fieldwork in: **Brazil, western Amazonia** (2 weeks, July 2003); **Brazil, Atlantic rainforest and Cerrado** (8 weeks, December 2013–February 2004); **Costa Rica** (2 weeks, September 2005); **Panama** (2 weeks, September 2005); **Dominican Republic** (2 weeks, 2016); September 2005); **Sweden, Georgia, Austria, Greece [Crete]** (2 weeks each, 2005); **Iceland** (2004); **Switzerland** (2009–2010); **Ecuador** (2 weeks, 2010); **Brazil, central Amazonia** (2 weeks, August 2010); **Australia, Queensland** (1 week, July 2011); **Mexico, central highlands** (2 weeks, August 2011); **Brazil, pampas** (1 week, November 2011); **Uruguay** (2 days, November 2011); **Japan** (2 weeks, August 2012); **USA, Florida** (1 week, January 2013); **Colombia, Chocó and Andes** (3 weeks, April 2013); **Andes and eastern Colombia** (2 weeks, January 2014); **French Guiana** (2 weeks, October 2013); **Brazil, cerrado** (1 week, April 2014); **Peru, Andes and Amazon** (3 weeks, April 2014); **Bolivia, Andes** (2 weeks, October 2015); **Chile, Central and Southern** (3 weeks, January 2016); **South Africa** (2 weeks, August–September 2016); **Mozambique** (2 weeks, October–November 2017); **Panama** (4 days, April 2018).
- Further species identification of plants through herbarium work at UEC (Brazil); SCZ (Panama); HUA (Colombia); JBSD (Dominican Republic); InBio (Costa Rica); S, GB (Sweden); P (France); K, RBGE (U.K.); MA (Spain); TBI (Georgia); Z, G (Switzerland); L, U (Netherlands); QCA (Ecuador).
- Extensive experience in **laboratory techniques**, including extracting, amplifying and sequencing DNA using Sanger techniques
- Currently leading several projects employing **high-throughput next-generation sequencing** (NGS) techniques, including hybrid sequence capture, transcriptomes, full genomes, ultra-conservative elements
- Botanical **nomenclature and taxonomy**; species descriptions and taxonomic circumscriptions
- **Phylogenetic inference** and phylogenetic comparative methods
- Extensive experience (co-) leading **bioinformatic projects** (SUPERSMART, SECAPR, SpeciesGeoCoder, CoordinateCleaner, SampBias, PyRate, Infomap Bioregions, knowme.earth)
- Extensive experience using a large number of **programs and scripts in evolution and ecology**, including phylogenetic inference, biogeographic analyses and molecular dating
- Intermediate knowledge of **programming** (R, Perl, python)

## EXPERT ADVISORY ROLES

### Grant and prize evaluations:

- European Research Council ERC (Synergy Grants) (2019)
- Natural Environment Research Council NERC, UK; Standard Grants (2019)



- TALENT Doctoral Fellowship Programme, Denmark (2019)
- L'Oréal-Unesco For Women in Science (Research prize) (2016, 2018)
- Marsden Fund, New Zealand Royal Society (Research Grants) (2018)
- National Science Foundation, USA (Research Grants) (2016, 2018)
- German Centre for Integrative Biodiversity Research (iDiv) (2018)
- Chilean National Science and Technology Commission (2017)
- The Natural Environment Research Council of the UK (NERC) (2017)
- The Royal Society, UK (2017)
- The Netherlands Organisation for Scientific Research (NWO) (2017)
- Ebbe Nielsen Challenge, Global Biodiversity Information Facility (2017)
- PhD proposal, State University of Feira de Santana (2016)
- German Council of Science and Humanities (Wissenschaftsrat); Federal Ministry of Education and Research BMBF (National Roadmap for Research Infrastructures) (2016)
- Czech Science Foundation (Research Grants) (2019, 2016)
- European Research Council ERC (Advanced Grants) (2015)
- Danish Council for Independent Research (Natural Sciences, Biology panel; Advanced Projects; evaluating c. 35–50 applications / year) (appointed member 2014–2017; Chair of Panel, 2017)
- The Research Foundation Flanders, the Netherlands (2016)
- American Association for the Advancement of Science (AAAS) (2014)
- Executive Agency for Higher Education, Research, Development and Innovation Funding (Environmental protection and management) (2014)
- Swedish Research Council: expert Swedish representative for new VR / FORMAS / CAPES programme in Climate Change Challenges between Sweden and Brazil (2014)
- Swedish Research Council: Invited external evaluator, SciLifeLab (2015)
- National Research Council of Romania (moderator in Biology & Ecology) (2012)
- National Geographic Society (2011, 2012, 2014, 2017)
- German Research Foundation DFG (2011)

#### Evaluation of theses and promotions:

- Promotion to Research Director, Dr Olivier Hardy, Free University of Brussels, Belgium (2020) [referee]
- PhD, Cecilia Fonseca Fiorini, University of Minas Gerais, Brazil (2020) [referee]
- PhD, Mariana Braga, University of Stockholm, Sweden (2019) [opponent]
- PhD, Diego Bogarín, University of Leiden, Netherlands (2019) [referee]
- Promotion to Associate Professor, Dr Malik Al-Ajlouni, University of Jordan (2019) [referee]
- Promotion to Curator, Dr Richard Ree, Chicago Field Museum, USA (2018) [referee]
- Promotion to Professor, Dr Spyros Sfenthourakis, University of Cyprus (2018) [referee]
- Promotion to Associate Professor, Dr Erin Tripp, University of Colorado, USA (2018) [referee]
- PhD, Patrick Strutzenberger, University of Vienna, Austria (2018) [committee]
- PhD, Maitreya Sil, Indian Institute of Science, Bengaluru, India (2018) [committee]
- PhD, Pedro Luiz Silva de Miranda, University of Edinburgh, UK (2018) [committee]
- PhD, Théo Gaboriau, University of Montpellier, France (2018) [committee]
- PhD, M. Sathya, Pondicherry University, India (2018) [committee] (planned)
- Promotion to DSc, Andimuthu Ramachandran, Anna University, India (2018) [referee]
- PhD, Julien Troudet, University of Sorbonne, France (2017) [committee]
- PhD, Jana Ebersbach, Leipzig University, Germany (2017) [committee]
- Promotion to Senior Lecturer, Dr Kyle Dexter, The University of Edinburgh, UK (2017) [referee]
- PhD, Hugh Burley, University of New South Wales, Australia (2017) [committee]
- PhD, Fabian Roger, University of Gothenburg (2017) [committee]
- PhD, Brigitte Nyirambangutse, University of Gothenburg (Dec 2016) [committee]
- Promotion to Professor, Dr Arthur Bos, American University in Cairo (2016) [referee]
- PhD, Brigitte Nyirambangutse, University of Gothenburg (Dec 2016) [committee]
- Promotion to Professor (Habilitation), Dr Jerome Murienne, CNRS, France (Nov 2015) [referee]
- PhD, Gwendolyn Peyre. Barcelona University (May 2015) [opponent]
- PhD, Léa Bardon. University of Toulouse (May 2015) [opponent]
- PhD, Anna Runemark. University of Lund (May 2012) [committee]
- PhD, Wolf L. Eiserhardt. University of Aarhus (Sep 2011) [opponent]

- MSc, Mats Töpel. University of Gothenburg (2003) [opponent]

#### Commissions of trust:

- Expert Reviewer, The Dasgupta Review on the Economics of Biodiversity commissioned by the Treasury of the United Kingdom (2020)
- Member of the Defra Group Evidence, Science and Analysis Committee (GESAC) (2020–)
- Expert Reviewer, Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC) by the United Nations Intergovernmental Panel on Climate Change (UN IPCC) (2019)
- Strategic Advisor, Plants, People, Planet (New Phytologist Trust (2019–)
- Panellist, “The Gordon Goodman Memorial Lecture 2018”. Stockholm Environment Institute, Royal Swedish Academy of Sciences, Stockholm (25 Sep 2018)
- Co-PI and Deputy Theme Coordinator (“Identifying efficient strategies for biodiversity conservation under the combined pressures from climate change and land use change”). BECC programme - Biodiversity and Ecosystem services in a Changing Climate
- Member of collaboration committee between the University of Gothenburg and Gothenburg Botanical Garden (1 Jul 2017 – 30 Jun 2020)
- Member of reference board, Swedish National Infrastructure for Computing (SNIC) / UGOT
- Member of reference board, project ‘Medicinareberget’ (University of Gothenburg; 2015–2016)
- Member of nomination committee, Swedish Systematics Association (2015–2016)
- Regular consultant for PhD evaluations and grant writing workshops at GU
- Founder (2011) and coordinator, NNB – Network for Neotropical Biogeography; joined in 2018 with the Red Latinoamericana para el Estudio de la Biogeografía Neotropical
- Moderator, “The Societal Value of Science”. University of Gothenburg (Dec 2011)
- Member of Advisory Board for science education, Faculty of Sciences at University of Gothenburg (2010 – current)
- Appointed member of Swedish network for pedagogic development in higher education (2013 – current)
- Appointed member of Supervisor Panel, University of Gothenburg (2014 – current)
- Appointed member of Advisory Board, University Library (2005–2008)
- Appointed member of ‘Dots to Surfaces’ Task Force, Global Biodiversity Information Facility (2015–onwards)
- Treasurer, Silverkällan Housing Society (2004–2007)

#### **HOSTING OF GUEST RESEARCHERS AND STUDENTS (>1 month)**

- Marcelo Tejedor. Centro Nacional Patagonico, Argentina (Professor; Nov 2016 – Jul 2017)
- Renato de Mello-Silva. Universidade de São Paulo (Professor; Mar – Apr 2014)
- Léa Bardon. University of Toulouse (PhD student; Nov 2013 – Feb 2014)

#### **EVENT ORGANISATION**

- Second main organiser, symposium “Frontiers in parametric biogeography”, Evolution, Guarujá, Brazil, (June 2015; with James Albert)
- Co-organiser, Swedish Systematics Meeting. Gothenburg (Nov 2014)
- Co-organizer, 15th Nordic Meeting on Tropical Botany, Copenhagen (13–15 Aug 2014; with Nina Rønsted, Mette Wenøe and others)
- Second main organiser, 2nd Meeting of the Network for Neotropical Biogeography, Miami (14 Jan 2013; with Christine Bacon)
- Session organizer, Neotropical Biogeography, International Biogeographic Society meeting, Florida (9–13 January 2013; with Catherine Graham, Daniel Gavin)
- Main organizer, 14th Nordic Meeting on Tropical Botany, Göteborg (6-8 Aug 2012; with Claes Persson, Roger Eriksson, Rosemeri Morokawa)
- Main organizer, symposium “Neotropical Plant Evolution: Assembling the Big Picture”, 18<sup>th</sup> International Botanical Congress, Melbourne, Australia (23–30 Jul 2011; with Toby Pennington, Colin Hughes)
- Second main organizer, conference on Niche Evolution, University of Zurich (2–3 Jul 2009; with Peter Linder, Rafael Wüest)
- Co-organizer, Swedish Systematics Meeting. Gothenburg (Nov 2010)

- Co-organizer, Symposium “Cenozoic plants and biosphere surrounding them”. International Palynological Conference, Tokyo, Japan (23–30 Aug 2012; with Carina Hoorn, Andre Pardo)
- Main organizer, exhibition ‘Orchid Extravaganza’, Gothenburg Botanical Garden (2011; 2012)
- Main organizer, exhibition ‘Desert Life (Succulents and cacti), Gothenburg Botanical Garden (2012)
- Co-organizer, exhibition ‘A fair and organic Christmas’, Gothenburg Botanical Garden (2010) (with Mats Havström)
- Co-organizer, exhibition ‘Threats to Amazonia”, Gothenburg Botanical Garden (2011; with Friends of the Earth)
- Many workshops (including bi-annual lab meetings with c. 20 people each time) at the Department of Biological and Environmental Sciences, GU, together with students and post-docs
- Co-organizer in “Floristics competition”, an annual outreach activity between GU and the Botanical garden for 5th-grade students (c. 11 years old) (2015– onwards)

## INNOVATIONS

[Know Earth AB](#) – Innovation company. Founder (2015) and Chairman (2015 – current). Products: [Knowme.earth](#) – A mobile platform for logging, identifying, and sharing information about all species on Earth. [Nyckelpigeförsöket](#) – A school app for integrating image recognition of ladybirds, using neural networks.

## MEDIA COVERAGE AND OUTREACH

- Over a hundred interviews for newspapers, magazines, radio, TV in many countries
- Six interviews conducted as part of appearance at [Hay Festival](#), Cartagena, Colombia, 2 February 2020: (Publisher Weekly/ Boston Globe; Hay Today TV; Canal Sur tv and online; Nexos, Mexico; El Tiempo daily newspaper)
- 21-minute documentary “Searching for Nature’s Miraculous Medicines” shown on Swedish National Television SVT 2 (12, 14 and 16 Mar 2018).
- Featured seven times in Science magazine in the columns “Editor’s Choice” (in text and images), in the Editorial: Science 324: 1366 (2009), Science 330: 153 (2010), Science 332: 15 (2011), Science (19 July 2013), Science 348: 6236 (2015), Science 350: 6260 (2015, plus a related Science podcast), and in “News” ([7 May 2019](#); 20 Apr 2016). BBC podcast (BBC World Service, 23 Sep 2019) [Climate Action: Should we plant more trees? Ritter et al. \(2019\) one of the top 100 downloaded ecology papers for Scientific Reports in 2019.](#)
- Radio interviews: Swedish Radio P1 ([2 Jan 2020](#)) BBC Radio 4, Today Programme ([14 Oct 2019](#)), BBC Radio Scotland, Good Morning Scotland ([14 Oct 2019](#)), BBC World Service Radio (23 Sep 2019), BBC London Radio (1 Sep 2019), BBC Radio Wales ([25 Aug 2019](#); [27 Aug 2019](#)), CBC Radio News, Canada (9 April, 2017; [30 Aug 2019](#)); Swedish Radio P1 (27 August 2019; [29 Jan 2019](#); 29 Dec 2016, 13 Aug 2015, 3 March 2017, 30 Mar 2017, 31 Oct 2018), P4 (20 Nov 2017, 29 Dec 2016, 30 Sept 2016, 02 July 2010, 10 May 2011, 9 Jun 2011, 15 Feb 2012, 28 Apr 2012, 26 Jun 2012), Radio France Internationale ([Nov 2018](#))
- Week-long program on orchids with Swedish Radio P4, 14–18 Mar 2011.
- Video interviews: My News (Brazil; [6 Oct 2019](#)), [Sky News](#) (24 Aug 2019); BBC World News (30 Aug 2019); Brazilian national TV O Globo ([29 Jun 2019](#)); Swedish TV SVT 1 (31 May 2017; 10-min documentary), SVT 1 (8 Nov 2010), University of Gothenburg ([2016](#)), Wallenberg Foundation (2016)
- Popular science presentation on the Open TV Channel
- Featured in the media by interviews and highlights in journals, newspapers, magazines and websites. Examples: GQ, Brazil ([Noé das plantas](#), 22 Mar 2020) BBC News ([Human impact on nature 'dates back millions of years'](#), 20 Jan 2020); The Guardian ([Age of extinction](#), 31 Dec 2019); TAB, Brazil ([21 Nov 2019](#)); Kew Magazine (Autumn 2019, pp 50–51, “Man on a Mission”); Al Jazeera ([24 Aug 2019](#)); First Post ([24 Aug 2019](#)); The Straits Times ([24 Aug 2019](#)); CNBC ([23 Aug 2019](#)); Express ([23 Aug 2019](#)); London Economic ([23 Aug 2019](#)); Sky News ([30 June 2019](#)); O Globo ([27 Jan 2019](#), [2 Aug 2019](#)); Independent ([6 May 2019](#)); The Times ([7 May 2019](#)); The Ecologist ([7 May 2019](#)); AFP ([7 May 2019](#)); BBC ([5 May 2019](#)); Oeco ([31 Mar 2019](#)); Richmond & Twickenham Times (23 Mar 2019); BBC (22 Mar 2019); TV Cultura ([Feb 2019](#)); Canal Londres ([Feb 2019](#)); Valor Econômico ([Feb 2019](#)); France 24 ([Feb 2019](#)); Valor Econômico ([11 Feb 2019](#) and [18 Feb 2019](#)); Revista FAPESP (Jan 2019 [in Portuguese](#) and [English](#)); Svenska Dagbladet (29 Dec 2016; 16 Jul 2018); ETC (Jan 2019); Allers Trädgård (Jan 2019); Terra da Gente ([13 Dec 2018](#)); Unicamp magazine ([30 Nov 2018](#)); Harvard Gazette ([July 23 2018](#));



Smithsonian Magazine (November 2018); WWF Eko 2 (2018); Biologen nr 4 (2018); Extrakt.se ([12 Feb 2018](#)), GU Magazine ([Feb 2019](#); April 2016, Front page and '[monthly profile](#)' interview; [Dec 2016](#); [Oct 2018](#), Back cover); Swedish TV SVT (19 Nov 2017), GBIF Science Review 2016, Daily Mail, Science Daily, Times of India, IBC World News (Aug 2015), Scientific American (15 Jun 2012), Curie (April 2014), Bionews (19 Feb 2011), Naturvetenskapliga utbildningar 2014–2015 (Nov 2013), Fauna & Flora (Jan 2011), Naturvetaren (Dec 2010), Allt om Trädgård (Nov 2018, Oct 2015, Mar 2017), Hemträdgården (Aug 2010), Göteborgs Direkt (30 Dec 2016), Dagens Industri / Framtidens Forskning (29 Jun 2017), Göteborgs Posten (15 Nov 2018, Aug 2015, 09 Jun 2009, 02 Jul 2010, 10 May 2011, 5 Mar 2012, 2 Apr 2012, 25–26 Jun 2012, 25 August 2012, 15 Sep 2012, 28 Feb 2013, 14 May 2013, 30 Nov 2015, 8 Jan 2017), Wermlands-posten (28 Feb 2012), University of Gothenburg's journal GUSpegel (nr 1, 2009), the Faculty of Science's magazine (nr 1, 2009; 2015; front page: <http://sciencefaculty.gu.se/alla-nummer/>), Metro (10 May 2011, 25 Apr 2012, Nov 2015), Biodiverse (Nov 2006), Kreativa Rum (May 2008), Aftonbladet (28 Apr 2012), Gullheden (Sep 2012), Wired.com [May 2016])

- Featured online several times by *Frontiers in Biogeography* (Vol. 1, Nr. 1, September 2009), Science Daily, Expertsvar, Scientific Blogging, Yuba Net, Allt om Vetenskap, Forskning.se, Sundweb, YouTube (via ScientificStation.com), Wissenschaft-online.de, GBIF Science Review (2016)
- *Ecology Letters* paper (2019) highlighted in *Nature Sustainability* (2); Aug 2019
- PNAS-paper (2015) featured in many newspapers and TV items around the world
- *Science* paper (2010) featured in over 65 newspapers worldwide, including personal interviews with several
- PNAS paper (2009) featured in over 30 newspapers in Latin America and Europe
- Cover images of journals: *Proceedings of the Royal Society Series B*, *Journal of Systematics and Evolution*, *Communicative & Integrative Biology*, *Systematic Biology*, among others.
- New Phytologist Trust You Tube Channel, [Testing traditional plant knowledge using genomic tools](#) (14 Oct 2019)
- Nobel talks: skype discussion with school children at the Nobel Museum in Stockholm about life as a researcher (24, 25 Jan 2019)
- Expedition Mundus: Game played with children from the 7-9 grades to understand and discuss the scientific process. Gothenburg Science Festival (9 & 16 May 2017; with the Young Academy of Sweden)
- Science Café: Can we trust research? with the Young Academy of Sweden & Kirsten Knudsen (12 May 2017)
- Science Café, Kew Science Festival (25–26 May 2019)

## FILM PRODUCTION

- Farooq, H., Antonelli, A. (2018). [Where does Neotropical biodiversity come from?](#) 1-minute popular scientific summary of results from the Antonelli *et al.* 2018 study in PNAS.
- Antonelli, A. (2013). [French Guiana – Snapshots from a biological expedition.](#)
- Antonelli, A. (2012). [Desert life – among cacti and succulents](#) (in Swedish)
- [New tools to understand and protect biodiversity.](#) (5 min) Popular science presentation of a project funded by the Swedish Foundation for Strategic Research. Presented in [English](#) and [Swedish](#). (Apr 2019)
- [Searching for nature's miraculous medicines.](#) 21-minute documentary shown on Swedish National Television SVT 2, on 12, 14 and 16 Mar 2018 (by AlphaFilm, with Nina Rønsted and others)
- **The Quest for Cinchona:** [Short version](#) (3 min) | [Full version](#) (24 min) (by AlphaFilm, with Nina Rønsted and others; Nov 2017)
- **The Rise and Fall of Species.** [Swedish version](#) | [English version](#): (by Mediabruket; Apr 2016)
- [Never stop asking - become a scientist!](#) (by University of Gothenburg, Feb 2016; [in Swedish])
- [The past, present and future of Neotropical biodiversity](#) (by AlphaFilm, Oct 2014)

## PERSONAL DETAILS

- Born in Campinas, Brazil, August 15, 1978
- Brazilian, Swedish and Italian citizenships
- Married, three children (Parental leave: c. 9 months, 2004 – 2012)
- Languages spoken: Portuguese, Swedish, English, Spanish, French (fluent); German, Italian, Botanical Latin (basic level)

## PERSONAL INTERESTS

Trail running; reading popular science books; gardening and carpentering; collecting, mounting and identifying beetles and butterflies; photographing and filming; listening to good music; cooking and baking; and having a good time with friends and colleagues in Sweden and abroad.

## CONTACT DETAILS

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## REFEREES

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## PUBLICATIONS

### Bibliometric information:

[Source: **Google Scholar**. For current citation statistics, please visit: <http://tiny.cc/antonelli>]

- Total number of peer-reviewed publications: **133**
- Total number of citations: **7,238**
- H index (overall, not limited to the last 8 years): **37**
- i10 index (overall, not limited to the last 8 years): **91**

### Ten selected research papers

1. Faurby, S., Silvestro, D., Werdelin, L., **Antonelli, A.** (2020). Brain expansion in early hominins predicts carnivore extinctions in East Africa. *Ecology Letters* 23(3): 537–544. DOI: <https://doi.org/10.1111/ele.13451>
2. Zizka, A., Silvestro, D., Andermann, T., Azevedo, J., Duarte Ritter, C., Edler, D., Farooq, H., Herdean, A., Ariza, M., Scharn, R., Svanteson, S., Wengström, N., Zizka, V., **Antonelli, A.** (2019), CoordinateCleaner: standardized cleaning of occurrence records from biological collection databases. *Methods in Ecology and Evolution* 10: 744–751. DOI: <https://doi.org/10.1111/2041-210X.13152>
3. **Antonelli, A.**, Zizka, A., Antunes Carvalho, F., Scharn, R., Bacon, C.D., Silvestro, D., Condamine, F.L. (2018). Amazonia is the primary source of Neotropical biodiversity. *Proceedings of the National Academy of Sciences of the USA* 115(23): 6034–6039. DOI: <https://doi.org/10.1073/pnas.1713819115>
4. **Antonelli, A.**, Kissling, W.D., Flantua, S.G.A., Bermúdez, M.A., Mulch, A.M., Muellner-Riehl, A.N., Kreft, H., Linder, H.P., Badgley, C., Fjeldså, J., Fritz, S.A., Rahbek, C., Herman, F., Hooghiemstra, H., Hoorn, C. (2018). Geological and climatic influences on mountain biodiversity. *Nature Geoscience* 11(10): 718–725. DOI: [10.1038/s41561-018-0236-z](https://doi.org/10.1038/s41561-018-0236-z)
5. Andermann, T., Fernandes, A., Olsson, U., Töpel, M., Pfeil, B., Oxelman, B., Aleixo, A., Faircloth, B.C., **Antonelli, A.** (2018). Allele phasing greatly improves the phylogenetic utility of ultraconserved elements. *Systematic Biology* 68(1): 32–46. DOI: <https://doi.org/10.1093/sysbio/syy039>
6. **Antonelli, A.**, Hettling, H., Condamine, F.L., Hettling, H., Nilsson, R.H., Sanderson, M.J., Sauquet, H., Scharn, R., Silvestro, D., Töpel, M., Bacon, C.D., Oxelman, B., Vos, R.A. (2017). Toward a self-updating platform for estimating rates of speciation and migration, ages and relationships of taxa. *Systematic Biology* 66(2): 152–166. DOI: <https://doi.org/10.1093/sysbio/syw066>
7. Perez-Escobar, O.A., Chomicki, G., Condamine, F.L., Karremans, A.P., Bogarin, D., Matzke, N., Silvestro, D., **Antonelli, A.** (2017). Recent origin and rapid speciation of Neotropical orchids in the world's richest plant biodiversity hotspot. *New Phytologist* 215(2): 891–905. DOI: <https://doi.org/10.1111/nph.14629>
8. Bacon, C.D., Silvestro, D., Jaramillo, C.A., Smith, B.T., Chakrabarty, P., **Antonelli, A.** (2015). Biological evidence supports an early and complex emergence of the Isthmus of Panama. *Proceedings of the National Academy of Sciences of the USA* 112(19): 6110–6115. DOI: <https://doi.org/10.1073/pnas.1423853112>
9. Vilhena, D., **Antonelli, A.** (2015). A network approach for identifying and delimiting biogeographical regions. *Nature Communications* 6: 6848. DOI: <https://doi.org/10.1038/ncomms7848>
10. Hoorn, C., Wesselingh, F.P., ter Steege, H., Stadler, T., I. Sanmartín, Sanchez-Meseguer, A., Anderson, C.L., Jaramillo, C.M., Bermudez, C., Figueiredo, J.D., Riff, F.R., Negri, H. Hooghiemstra, J. Lundberg, T. Sarkinen, A. Mora, **Antonelli, A.** (2010). Amazonia through time: Andean uplift, climate change, landscape evolution, and biodiversity. *Science* 330: 927–931. DOI: <https://doi.org/10.1126/science.1194585>

## FULL PUBLICATION LIST

### Original articles in scientific journals (Peer-reviewed)

1. Daru, B.H., Farooq, H., **Antonelli, A.**, Faurby, S. (2020). Endemism patterns are scale dependent. *Nature Communications* 11: 2115. DOI: <https://doi.org/10.1038/s41467-020-15921-6>
2. Helmstetter, A.J., Kamga, S.M., Bethune, K., Lautenschläger, T., Zizka, A., Bacon, C.D., Wieringa, J.J., Stauffer, F., **Antonelli, A.**, Sonké, B., Couvreur, T.L.P. (2020) Unravelling the phylogenomic relationships of the most diverse African palm genus *Raphia* (Calamoideae, Arecaceae). *Plants* 9(4): 549. DOI: <https://doi.org/10.3390/plants9040549>
3. Bennett, D.J., Hettling, G.H., Silvestro, D., Vos, R., **Antonelli, A.** (2020). outsider: Install and run programs, outside of R, inside of R. *Journal of Open Source Software* 5(45): 2038. DOI: <https://doi.org/10.21105/joss.02038>
4. Carvalho-Sobrinho, J.G., Pennington, R.T., Queiroz, L.P., Alcantara, S., Baum, D.A., Bacon, C.D., **Antonelli, A.** (2020). Transitions between biomes are common and directional in Bombacoideae (Malvaceae). *Journal of Biogeography*. DOI: <https://doi.org/10.1111/jbi.13815>
5. Andermann, T., Torres Jiménez, M.F., Matos-Maraví, P., Batista, R., Blanco-Pastor, J.L., Gustafsson, A.L.S., Kistler, L., Liberal, I.M., Oxelman, B., Bacon, C.D., **Antonelli, A.** (2020). A guide to carrying out a phylogenomic target sequence capture project. *Frontiers in Genetics* 10: 1407. DOI: <https://doi.org/10.3389/fgene.2019.01407>
6. Bakker, F.T., **Antonelli, A.**, Clarke, J.A., Cook, J.A., Edwards, S.V., Ericson, P.G.P., Faurby, S., Ferrand, N., Gelang, M., Gillespie, R.G., Irestedt, M., Lundin, K., Larsson, E., Matos-Maraví, P., Müller, J. von Proschwitz, T., Roderick, G.K., Schliep, A., Wahlberg, N., Wiedenhoeft, J., Källersjö, M. (2020). The Global Museum: natural history collections and the future of evolutionary science and public education. *PeerJ* 8: e8225. DOI: <https://doi.org/10.7717/peerj.8225>
7. Batista, R., Olsson, U., Andermann, T., Aleixo, A., Cherem Ribas, A., **Antonelli, A.** (2020). Phylogenomics and biogeography of the world's thrushes (Aves, *Turdus*): New evidence for a more parsimonious evolutionary history. *Proceedings of the Royal Society B* 287: 20192400. DOI: <http://dx.doi.org/10.1098/rspb.2019.2400>
8. Faurby, S., Silvestro, D., Werdelin, L., **Antonelli, A.** (2020). Brain expansion in early hominins predicts carnivore extinctions in East Africa. *Ecology Letters* 23(3): 537–544. DOI: <https://doi.org/10.1111/ele.13451>
9. Canales, N.A., Nikolaj T., Hansen, G., Cornett, C., Walker, K., Driver, F., **Antonelli, A.**, Maldonado, C., Nesbitt, M., Barnes, C.J., Rønsted, N. (2020). Historical chemical annotations of *Cinchona* bark collections are comparable to results from current day high-pressure liquid chromatography technologies. *Journal of Ethnopharmacology* 249: 112375. DOI: <https://doi.org/10.1016/j.jep.2019.112375>
10. Pérez-Escobar, O.A., Lucas, E., Jaramillo, C., Monro, A., Morris, S.K., Bogarín, D., Greer, D., Dodsworth, S., Aguilar-Cano, J., Sanchez Meseguer, A., **Antonelli, A.** (2019). The origin and diversification of the hyperdiverse flora in the Chocó biogeographic region. *Frontiers in Plant Science* 10: 1328. DOI: <https://doi.org/10.3389/fpls.2019.01328>
11. Heiden, G., **Antonelli, A.**, Pirani, J.R. (2019). A novel phylogenetic infrageneric classification of *Baccharis* (Asteraceae: Astereae), a highly diversified American genus. *Taxon*. DOI: <https://doi.org/10.1002/tax.12128>
12. Neves, B., Zanella, C.M., Kessous, I.M., Uribbe, F.P., Salgueiro, F., Bered, F., **Antonelli, A.**, Bacon, C.D., Costa, A.F. (2019). Drivers of bromeliad leaf and floral bract variation across a latitudinal gradient in the Atlantic Forest. *Journal of Biogeography* 47(1): 261-274. DOI: <https://doi.org/10.1111/jbi.13746>
13. Ritter, C.D., Faurby, S., Bennett, D.J., Naka, L.N., ter Steege, H., Zizka, A., Haenel, Q., Nilsson, R.H., **Antonelli, A.** (2019). The pitfalls of biodiversity proxies: Differences in richness patterns of birds, trees and understudied diversity across Amazonia. *Scientific Reports* 9: 19205. DOI: <https://doi.org/10.1038/s41598-019-55490-3>

14. Azevedo, J.A.R., Guedes, T.B., de C. Nogueira, C., Passos, P., Sawaya, R.J., Prudente, A.L.C., Barbo, F.E., Strüssmann, C., Franco, F.L., Arzamendia, V., Giraud, A.R., Argôlo, A.J.S., Jansen, M., Zaher, H., Tonini, J.F.R., Faurby, S. \*, **Antonelli, A.** (2019). Museums and cradles of diversity are geographically coincident for narrowly distributed Neotropical snakes. *Ecography* 42: 1–12. DOI: [0.1111/ecog.04815](https://doi.org/10.1111/ecog.04815)
15. Da Silva, E. A., de Araujo, H.F.P., Aleixo, A., **Antonelli, A.**, Fernandes, A.M. (2019). The effects of climate change on the distribution of South American antbirds (*Thamnophilus punctatus* complex) as affected by niche divergences and contact zone interactions between species. *Journal of Ornithology* 161: 229–241. DOI: <https://doi.org/10.1007/s10336-019-01721-3>. Full text link: <https://rdcu.be/bSbSM>
16. Morais, E.B., Schönenberger, J., Conti, E., **Antonelli, A.**, Szövényi, P. (2019). Orthologous nuclear markers and new transcriptomes that broadly cover the phylogenetic diversity of Acanthaceae. *Applications in Plant Sciences* 7(9): e11290. DOI: <https://doi.org/10.1002/aps3.11290>
17. Rahbek, C., Borregaard, M.K., **Antonelli, A.**, Colwell, R.K., Holt, B.G., Nogues-Bravo, D., Rasmussen, C.M.Ø., Richardson, K., Rosing, M.T., Whittaker, R.J., Fjeldså, J. (2019). Building mountain diversity: geological and evolutionary processes. *Science* 365(6458): 1114–1119. DOI: <https://doi.org/10.1126/science.aax0151>
18. Ritter, C.D., Zizka, A., Barnes, C., Nilsson, R.H., **Antonelli, A.** (2019). Locality or habitat? Exploring predictors of biodiversity in Amazonia. *Ecography* 41: 1–13. DOI: <https://doi.org/10.1111/ecog.03833>
19. Silvestro, D., **Antonelli, A.**, Salamin, N., Meyer, X. (2019). Improved estimation of macroevolutionary rates from fossil data using a Bayesian framework. *Paleobiology* 45(4): 546–570. DOI: <https://doi.org/10.1017/pab.2019.23>
20. Bernal, R., Bacon, C.D., Baslev, H., Hoorn, C., Bourlat, S.J., Tuomisto, H., Salamanca, S., van Manen, M.T., Romero, I., Sepulchre, P., **Antonelli, A.** (2019). Could coastal plants in western Amazonia be relicts of past marine incursions? *Journal of Biogeography* 46: 1749–1759. DOI: <https://doi.org/10.1111/jbi.13560>
21. Bernardo-Madrid, R., Calatayud, J., González-Suarez, M., Rosvall, M., Lucas, P.M., **Antonelli, A.**, Rueda, M., Revilla, E. (2019). Human activity is altering the world's zoogeographical regions. *Ecology Letters* 22(8): 1297–1305. DOI: <https://doi.org/10.1111/ele.13321>
22. Amorim, B.S., Vasconcelos, T.N.C., Souza, G., Alves, M., **Antonelli, A.**, Lucas, E. (2019). Advanced understanding of phylogenetic relationships, morphological evolution and biogeographic history of the mega-diverse plant genus *Myrcia* and its relatives (Myrtaceae: Myrteae). *Molecular Phylogenetics and Evolution* 138: 65–88. <https://doi.org/10.1016/j.ympev.2019.05.014>
23. Zizka, A., Silvestro, D., Andermann, T., Azevedo, J., Duarte Ritter, C., Edler, D., Farooq, H., Herdean, A., Ariza, M., Scharn, R., Svantesson, S., Wengström, N., Zizka, V., **Antonelli, A.** (2019). CoordinateCleaner: standardized cleaning of occurrence records from biological collection databases. *Methods in Ecology and Evolution* 10: 744–751. DOI: <https://doi.org/10.1111/2041-210X.13152>
24. Barrett, C.F., McKain, M., Brandon, S., Xue-Jun, G., Yuqu, Z., **Antonelli, A.**, Bacon, C. (2019). Ancient polyploidy and genome evolution in palms. *Genome Biology and Evolution* 11(5): 1501–1511. DOI: <https://doi.org/10.1093/gbe/evz092>
25. ter Steege, H., Mota de Oliveira, S., Pitman, N.C.A., Sabatier, D., **Antonelli, A.**, Andino, J.E.G., Aymard, G.A., Salomão, R.P. (2019). Towards a dynamic list of Amazonian tree species. *Nature Scientific Reports* 9: 3501. DOI: <https://doi.org/10.1038/s41598-019-40101-y>
26. Matos-Maraví, P., Wahlberg, N., **Antonelli, A.**, Penz, C.M. (2019). Species limits in butterflies (Lepidoptera: Nymphalidae): Reconciling classical taxonomy with the multispecies coalescent. *Systematic Entomology*. DOI: <https://doi.org/10.1111/syen.12352>
27. **Antonelli, A.**, Zizka, A., Antunes Carvalho, F., Scharn, R., Bacon, C.D., Silvestro, D., Condamine, F.L. (2018). Amazonia is the primary source of Neotropical biodiversity. *Proceedings of the National*



*Academy of Sciences of the USA* 115(23): 6034–6039. DOI:  
<https://doi.org/10.1073/pnas.1713819115>

28. Bennett, D.J., Hettling, H., Silvestro, D., Vos, R. and **Antonelli, A.** (2018). restez: Create and query a local copy of GenBank in R. *Journal of Open Source Software* 3(31) 1102. DOI: <https://doi.org/10.21105/joss.01102>
29. Andermann, T., Fernandes, A., Olsson, U., Töpel, M., Pfeil, B., Oxelman, B., Aleixo, A., Faircloth, B.C., **Antonelli, A.** (2018). Allele phasing greatly improves the phylogenetic utility of ultraconserved elements. *Systematic Biology* 68: 32–46. DOI: <https://doi.org/10.1093/sysbio/syy039>
30. Ritter, C.D., Zizka, A., Roger, F., Tuomisto, H., Barnes, C., Barnes, C., Nilsson, R.H., **Antonelli, A.** (2018). High-throughput metabarcoding reveals the effect of physicochemical soil properties on soil and litter biodiversity and community turnover across Amazonia. *PeerJ* 6: e5661. DOI: <https://doi.org/10.7717/peerj.5661>
31. Bennett, D.J., Hettling, H., Silvestro, D., Zizka, A., Bacon, C.D., Faurby, S., Vos, R.A., **Antonelli, A.** (2018). phylotaR: An automated pipeline for retrieving orthologous DNA sequences from GenBank in R. *Life* 8: 20. doi: [10.3390/life8020020](https://doi.org/10.3390/life8020020)
32. Andermann, T., Cano, Á., Zizka, A., Bacon, C.D., **Antonelli, A.** (2018). SECAPR - A bioinformatics pipeline for the rapid and user-friendly processing of targeted enriched Illumina sequences, from raw reads to alignments. *PeerJ* 6: e5175. DOI: <https://doi.org/10.3390/life8020020>
33. Bacon CD, Velásquez-Puentes FJ, Hoorn, C., **Antonelli A.** (2018). Iriarteeae palms tracked the uplift of Andean Cordilleras. *Journal of Biogeography* 45(7): 1653–1663. DOI: <https://doi.org/10.1111/jbi.13350>
34. Faurby, S., **Antonelli, A.** (2018). Evolutionary and ecological success is decoupled in mammals. *Journal of Biogeography* 45(10): 2227–2237. DOI: <https://doi.org/10.1111/jbi.13411> [Editors' Choice]
35. Silvestro, D., Tejedor, M.F., Serrano-Serrano, M.L., Loiseau, O., Rossier, V., Rolland, J., Zizka, A., Höhna, A., **Antonelli, A.**, Salamin, N. (2018). Early arrival and climatically linked geographic expansion of New World monkeys from tiny African ancestors. *Systematic Biology* 68(1): 78–92. DOI: <https://doi.org/10.1093/sysbio/syy046>
36. Muscarella, R., Bacon, C.D., Faurby, S., **Antonelli, A.**, Munch-Christiansen, S., Svenning, J.-C., Balslev, H. (2018). Soil fertility and flood regime are correlated with phylogenetic structure of Amazonian palm communities. *Annals of Botany* 123: 641–655. DOI: <https://doi.org/10.1093/aob/mcy196>
37. Ferreira, M., Fernandes, A.M., Aleixo, A., **Antonelli, A.**, Olsson, U, Bates, J. M, Cracraft, J., Ribas, C. (2018). Evidence for mtDNA capture in the jacamar *Galbula leucogastra* / *chalcothorax* species-complex and insights on the evolution of white-sand ecosystems in the Amazon basin. *Molecular Phylogenetics and Evolution* S1055-7903(17): 30687-5. DOI: <https://doi.org/10.1016/j.ympev.2018.07.007>
38. Abreu, N.Ld., Alves, R.J.V., Cardoso, S.R.S., Bertrand, Y.J., Sousa, F., Hall, C.F., Pfeil, B.E., **Antonelli, A.** (2018). The use of chloroplast genome sequences to solve phylogenetic incongruences in *Polystachya* Hook (Orchidaceae Juss). *PeerJ* 6: e4916. DOI: <https://doi.org/10.7717/peerj.4916>
39. Woutersen, A., Jardine, P., Bogota-Angel, G., Silvestro, D., **Antonelli, A.**, Zhang, M.-L., Gogna, E., Erkens, R., Hoorn, C. (2018). A novel approach to study the morphology and chemistry of pollen in a phylogenetic context, applied to the halophytic taxon *Nitraria* L. (Nitrariaceae). *PeerJ* 6: e5055. DOI: <https://doi.org/10.7717/peerj.5055>
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