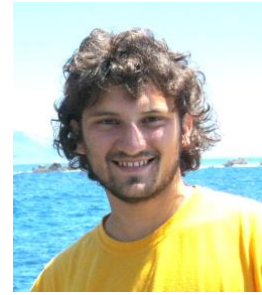


Curriculum Vitae

Name: Darko Davor Cotoras Viedma
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1.- Researcher positions

- August, 2021 – today: Humboldt Post-Doctoral Fellow.
Arachnology. Senckenberg Research Institute (*Advisors: Peter Jäger and Steffen Pauls*)
- February, 2018 – today: Research Associate.
Entomology dept. California Academy of Sciences
- September, 2019: Visiting Scholar.
Ecology and Evolution Unit. Okinawa Institute of Science and Technology
- September-October, 2018: Consultant.
Island Conservation
- April-May, 2018: Visiting Scholar.
Ecology and Evolution Unit. Okinawa Institute of Science and Technology
- January, 2015 – December, 2017: Post-Doctoral Researcher.
University of California, Santa Cruz (*Advisors: Beth Shapiro and Ed Green*)
California Academy of Sciences (*Advisors: Charles Griswold and Brian Simison*)
- September-November, 2014: Junior Specialist.
NSF Hawai'i Dimensions of Biodiversity project. University of California, Berkeley
- January-August, 2014: Graduate Student Researcher.
NSF Hawai'i Dimensions of Biodiversity project. University of California, Berkeley

2.- Education

- 2009-2014: PhD Integrative Biology. University of California, Berkeley
Advisors: David Lindberg and Rosemary Gillespie
Dissertation: "Diversification of spiders on volcanic islands from the Pacific Ocean"
- 2008-2009: Master in Biological Sciences with mention in Ecology & Evolutionary Biology, Universidad de Chile
Highest distinction
Advisors: Miguel Allende and Verónica Cambiazo
*Thesis: "In the footsteps of Urbilateria, or Evolution of the gene network involved in appendage development in arthropods (*Drosophila melanogaster*) and vertebrates (*Danio rerio*)"*
- 2004-2007: Bachelor in Sciences with mention in Biology, Universidad de Chile
Highest distinction. Ranking: 1st. Final grade: 6.5 / 7.0
Research internships: Zebrafish developmental biology lab (Miguel Allende) and Evolutionary ecology lab (Rodrigo Medel)
- 1991-2003: Colegio San Ignacio. Santiago, Chile
Academic excellence. Ranking: 1st. Final grade: 6.9 / 7.0

3.- Research interests

Island Biogeography, Phylogenetics, Population Genetics, Paleogenomics and Evolutionary Developmental Biology (EvoDevo).

4.- Grants and fellowships

- 2019: Humboldt Research Fellowship for Postdoctoral Researchers (2 years; €87,810 + 4 months language course and other fellowship benefits)
- 2019: Lizard Island Reef Research Foundation Fellowship (AUD\$10,000)
- 2018: Travel grant to attend to LXI Annual meeting Chilean Society for Biology (CL\$110,000)
- 2016: Percy Sladen Memorial Fund. The Linnean Society of London (£1,424)
- 2016: Herb Levi Memorial Fund for Arachnological Research. American Arachnological Society. (US\$1,660)
- 2016: Kenneth King Foundation scholarship. International Arachnology Conference (US\$600 + registration)
- 2015: Percy Sladen Memorial Fund. The Linnean Society of London (£1,500)
- 2014: Hagey fund, California Academy of Sciences (Co-PIs: Charles Griswold and Brian Simison; US\$36,028)
- 2014: Short Term fellowship. Smithsonian Tropical Research Institute (Fellow status)
- 2014 and 2012: Summer Research Grant. Graduate Division UC Berkeley (US\$3,500)
- 2014-2011 (each year): Reshetko Family Scholarship Fund. UC Berkeley (US\$1,700-3,000)
- 2014-2010 (each year): Walker Grant. Essig Museum of Entomology. UC Berkeley (US\$1,000)
- 2013: Pilot research grant. Organization for Tropical Studies (US\$2,200)
- 2012: Sigma Xi Research Grant (US\$750)
- 2012: Tinker Grant. Center of Latinamerican Studies. UC Berkeley (US\$2,196)
- 2012-2010 (each year): Research fellowship. UC Entomological Student Association. UC Berkeley (US\$500)
- 2011: National Tropical Botanical Garden (NTBG) fellowship, McBryde Garden (US\$1,250)
- 2010: Travel grant to attend to Nexos Chile-USA conference (US\$250)
- 2010: Travel grant to attend to Conservation Genomics meeting American Genetic Association (US\$400)
- 2009: Fulbright/CONICYT Doctorate scholarship (4 years of full funding)
- 2008: Travel grant to attend to LI Annual meeting Chilean Society for Biology (CL\$60,000)
- 2008: Beca Líder, Fundación Carolina, España.
- 2007 and 2006: Academic Excellence Fellowship, Facultad de Ciencias, Universidad de Chile.

5.- Awards

- 2021: Photo contest American Arachnological Society conference. 1st place Arachnologist at Work category: "Let there be light"
- 2020: Nexos Chile-USA: "El arte de la ciencia" photo contest. 1st place: ["Habronattus cf. coecatus es una especie introducida a Rapa Nui"](#)
- 2020: Nexos Chile-USA: "El arte de la ciencia" photo contest. Honorable mention: ["Tetragnatha waikamoi es parte de una radiación adaptativa en Hawai'i"](#)
- 2019: Organization for Tropical Studies. Experience Photo Contest for the 2020 OTS calendar. "8 eyes"
- 2019: BMC Ecology image competition 2018. Editor's pick: ["Small bridges"](#)
- 2019: Frontiers EcoPics: ["Enigmatic display"](#) Frontiers in Ecology and the Environment 17: 47. Ecological Society of America
- 2012: Best poster presentation. 36th Annual meeting American Arachnological Society.
- 2011: Honorable Mention Border Crossing Essay Contest 2011. International House UC Berkeley
- 2010: 2nd Place Border Crossing Essay Contest 2010. International House UC Berkeley
- 2008: Best Student Class 2008 Bachelor in Sciences with mention in Biology. Facultad de Ciencias. Universidad de Chile.
- 2004: Best admission score Bachelor in Sciences with mention in Biology. Facultad de Ciencias, Universidad de Chile.
- 2003: Espíritu Ignaciano award. Colegio San Ignacio.
- 2003: Life Academic Excellence (each year for 13 years). Colegio San Ignacio.

- 2000: Honorable mention (Junior level). National Math Olympics – Sociedad de Matemática de Chile

6.- Teaching experience

Course co-coordinator:

- Graduate Field Ecology (2019, 2018). Organization for Tropical Studies
- LSAMP REU (Research Experience for Undergraduates) for U.S. Underrepresented Minority Students Summer Programs in Costa Rica (2019, 2018). Organization for Tropical Studies

Mentor:

- Australia: Rainforest, Reef and Cultural Ecology (2019; John McCormack). School for International Training
- REU (Research Experience for Undergraduates) for U.S. Underrepresented Minority Students Summer Programs in Costa Rica (2017; Gustavo Acevedo and Gabriela Cardona). Organization for Tropical Studies
- Cal Teach (2016; Mario Nava). University of California, Santa Cruz

Workshop instructor:

- Introduction to Phylogenetic reconstruction. (Okinawa Institute of Science and Technology, 2018; Smithsonian Tropical Research Institute, 2018; Museo Nacional de Costa Rica, 2017)

Committee member:

- Master thesis: Enrique Maldonado, Universidad de Talca (*currently*)
- PhD dissertation and Qualifying exam: Milenko Aguilera, Universidad de Concepción (2017)

Invited faculty – field courses (Organization for Tropical Studies):

- Graduate: Field Ecology (2019, 2018, 2017 (x2))
- Graduate: Tropical Ecology and Conservation (2018)
- Undergraduate: Tropical Biology (2017)

Invited lecturer (graduate): Environmental Biochemistry (Universidad de Chile, 2021, 2020), Third Generation Sequencing (Universidade de São Paulo, 2019); Ecology & Biodiversity of Southamerican temperate forests (Senda Darwin, 2019, 2018); Eco-Evolutionary Dynamics in Biogeography (Parque Katalapi, 2018)

Invited lecturer (undergraduate): Spider biology (Universität Trier, 2021); Conservation biology (Tecnológico de Costa Rica, 2020); Special interest tourism (Universidad de Magallanes, 2020); Use of molecular tools on ecology and behavioral studies (Universidad de Costa Rica, 2018); Advances in the knowledge on the diversity and distribution of insects of Chile (Universidad Metropolitana de Ciencias de la Educación, 2018); Tropical ecology (Stetson University, 2018); Biogeography (Universidad de Costa Rica, 2014); Evolution & Development (Universidad de Chile, 2008)

Teaching Assistant (undergraduate):

- University of California, Berkeley: Biology 1B: Plant Diversity, Ecology and Evolution (2011); Evolution (2010)
- Universidad de Chile: General zoology (2009, 2008); Comparative anatomy of vertebrates (2009-2007); Developmental biology (2008)

7.- Field experience

- November 2019 – March 2020: Chile (24 protected areas from Fray Jorge to Isla Navarino; 13 weeks)
- August 2019: Península de Osa and Isla del Caño, Costa Rica (1 week)
- April 2019: Lizard Island group, Great Barrier Reef (4 weeks)

- January 2019: Isla del Coco, Costa Rica (3 weeks)
- November 2018: Rapa Nui (Isla de Pascua) (<1 week)
- August 2018: Isla del Coco, Costa Rica (1 week)
- May 2018: Península de Osa and Isla del Caño, Costa Rica (1 week)
- January 2018: Isla Barro Colorado, Panamá (<1 week)
- July 2017: Isla del Coco, Costa Rica (3 weeks)
- June 2016: Hawai'i (Kaua'i and O'ahu; 2 weeks).
- June/July 2015: Society Islands, French Polynesia (Tahiti, Raiatea, Taha'a and Huahine; 6 weeks)
- November/December 2014: Costa Rica and Panamá (6 weeks)
- June 2013: Hawai'i (Kaua'i, Maui, Lana'i and Big Island; 4 weeks)
- August 2012: Rapa Nui (Isla de Pascua) (3 weeks)
- June 2012: Hawai'i (Big Island, Moloka'i, and Maui; 4 weeks)
- January 2012: Hawai'i (Big Island; 3 weeks)
- August 2011: Juan Fernández archipelago (Isla Robinson Crusoe; 2 weeks)
- June 2011: Hawai'i (Big Island; 4 weeks)
- August 2010: Hawai'i (Big Island; 2 weeks)
- January 2010: Hawai'i (Maui and Big Island; 2 weeks)
- Since 2006: Several trips in central and southern Chile

8.- Museum collections examined

American Museum of Natural History (New York), Australian Museum (Sydney, Australia), California Academy of Sciences (San Francisco, California), Essig Museum of Entomology (UC Berkeley), Instituto Nacional de Biodiversidad (San José, Costa Rica), Macleay Museum (University of Sydney), Museo Argentino de Ciencias Naturales (Buenos Aires, Argentina), Museo de Invertebrados G.B. Fairchild (Universidad de Panamá), Museo Nacional de Historia Natural (Santiago, Chile), Muséum national d'Histoire naturelle (Paris, France), Museum of Comparative Zoology (Harvard University), Natural History Museum (London, UK), Senckenberg Museum (Frankfurt, Germany), Smithsonian National Museum of Natural History (Washington DC), The Bernice Pauahi Bishop Museum (Honolulu, Hawai'i) and Zoologisk Museum (København Universitet).

9.- Publications

- Cardona-Rivera G.A. and Cotoras D.D. 2021. Differences in web structure of *Tetragnatha tenuissima* (Araneae: Tetragnathidae) due to environmental conditions. *Arachnology* 18: 953-957.
- Cotoras D.D., Castanheira P.dS. and Sharma P.P. 2021. Implications of a cheliceral axial duplication in *Tetragnatha versicolor* (Araneae: Tetragnathidae) for arachnid deutocerebral appendage development. *Development Genes and Evolution* Early View.
- Cotoras D.D. and Goyes Vallejos J. 2021. Wandering spider (*Cupiennius* sp.) predation on the emerald glass frog (*Espadarana prosoblepon*) in a montane rainforest of southwestern Costa Rica. *Herpetology Notes* 14: 667-669.
- Cotoras D.D., Suenaga M. and Mikheyev A.S. 2021. Intraspecific niche partition without speciation: Individual level web polymorphism within a single island spider population. *Proceedings of the Royal Society B: Biological Sciences* 288: 20203138.
- Wilson J.D., Zapata L.V., Barone M.L., Cotoras D.D., Poy D. and Ramírez M.J. 2021. Geometric morphometrics reveal sister species in sympatry and a cline in genital morphology in a ghost spider genus. *Zoologica Scripta* 50: 485-499.
- McCormack J. and Cotoras D.D. 2021. Beetle diversity across micro-habitats on Lizard Island group (Great Barrier Reef, Australia). *Zoological Studies* 60: 12.
- Giroti A.M., Cotoras D.D., Lazo P. and Brescovit A.D. 2020. First endemic arachnid from Isla Sala y Gómez (Motu Motiro Hiva), Chile: A new species of tube-dwelling spider (Araneae: Segestriidae). *European Journal of Taxonomy* 722: 97-105.

- González G., Cotoras D.D. and Grez A. 2020. Annotated list of island lady beetles from Chile (Coleoptera: Coccinellidae). *Zootaxa* 4852: 501-526.
- Cotoras D.D., Araya J.F., Villagra C. and Flores L. 2020. Preguntas en torno a las extinciones e introducciones de caracoles terrestres en Rapa Nui. *Boletín Nahuelbuta Natural* 6: 4.
- Pérez-González A., Cotoras D.D. and Acosta L.E. 2020. Early detection of an invasive harvestman in an oceanic island? Remarkable findings of *Parabatta reedii* (Opiliones, Gonyleptidae) in the Juan Fernández archipelago, Chile. *Studies on Neotropical Fauna and Environment* DOI: 10.1080/01650521.2020.1809611
- Cotoras D.D. and Zumbado M.A. 2020. Aerial plankton from the Eastern Tropical Pacific. *Revista de Biología Tropical* 68: 155-162.
- Araya J.F., Aliaga J.A. and Cotoras D.D. 2018. Rediscovery of *Pacificella variabilis* (Gastropoda: Achatinellidae) on Easter Island. *Pacific Science* 72: 329-335.
- Cotoras D.D., Bi K., Brewer M., Lindberg D., Prost S. and Gillespie R.G. 2018. Co-occurrence of ecologically similar species of Hawaiian spiders reveals critical early phase of adaptive radiation. *BMC Evolutionary Biology* 18: 100.
- McGuire J.A., Cotoras D.D., O'Connell B., Lawalata S.Z.S., Wang-Claypool C.Y., Stubbs A., Huang X., Wogan G.O.G., Hykin S., Reilly S.B., Bi K., Riyanto A., Arida E., Smith L., Milne H., Streicher J.W. and Iskandar D.T. 2018. Squeezing Water From a Stone: High-Throughput Sequencing from a 145-Year Old Holotype Resolves (Barely) a Cryptic Species Problem in Flying Lizards. *PeerJ*: e4470.
- Cotoras D.D. and Vidal M.A. 2018. Similar feeding ecologies, different morphologies in *Liolaemus pictus* (Duméril & Bibron, 1837) (Liolaemidae) from Chiloé Archipelago, Chile. *Boletín del Museo Nacional de Historia Natural, Chile* 67: 25-31.
- Cotoras D.D., Murray G.G.R., Kapp J., Gillespie R.G., Griswold C., Simison W.B., Green R.E. and Shapiro B. 2017. Ancient DNA resolves the history of *Tetragnatha* (Araneae, Tetragnathidae) spiders on Rapa Nui. *Genes* 8: 403.
- Cotoras D.D., Wynne J.J., Flores-Prado L. and Villagra C. 2017. The spiders of Rapa Nui (Easter Island) revisited. *Bishop Museum occasional papers* 120: 1-17.
- Cotoras D.D., Brewer M.S., Croucher P.J.P., Oxford G.S., Lindberg D.R. and Gillespie R.G. 2016. Convergent evolution in the colour polymorphism of *Selkirkiella* spiders (Theridiidae) from the South American temperate rainforest. *The Biological Journal of the Linnean Society* 120: 649-663.
- Rominger A.J., Goodman K.R., Lim J.Y., Armstrong E.E., Becking L.E., Bennett G.M., Brewer M.S., Cotoras D.D., Ewing C.P., Harte J., Martinez N.D., O'Grady P.M., Percy D.M., Price D.K., Roderick G.K., Shaw K.L., Valdovinos F.S., Gruner D.S. and Gillespie R.G. 2016. Community assembly on isolated islands. *Global Ecology and Biogeography* 25: 769-780.
- Cotoras D.D. and Allende M.L. 2015. Was the tail bud the ancestral center where the fin developmental program evolved in chordates? *Contributions to Zoology* 84: 317-328.
- Brewer M.S. Cotoras D.D., Croucher P.J.P., Gillespie R.G. 2014. New sequencing technologies, the development of genomics tools, and their applications in evolutionary Arachnology. *Journal of Arachnology*. 42: 1-15.
- Razeto-Barry P., Díaz J., Cotoras D. and Vásquez R. 2011. Molecular evolution, mutation size and gene pleiotropy: a geometric reexamination. *Genetics* 187: 877-885.
- Glavic A., Molnar C., Cotoras D. and de Celis J.F. 2009. *Drosophila* Axud1 is involved in the control of proliferation and displays pro-apoptotic activity. *Mechanisms of Development*. 126: 184-197.

10.- Congress presentations

- Cotoras D.D., Suenaga M. and Mikheyev A.S. (Keynote speaker) Intraspecific niche partition without speciation: Individual level web polymorphism within a single island spider population. 32nd European Congress of Arachnology. August 23-25, 2021. Virtual meeting.
- Cotoras D.D., Castanheira P.d.S. and Sharma P.P. (Oral presentation) Implications of a cheliceral axial duplication in *Tetragnatha versicolor* (Araneae: Tetragnathidae) for arachnid deutocerebral appendage development. 32nd European Congress of Arachnology. August 23-25, 2021. Virtual meeting.

- Giroti A.M., Cotoras D.D., Lazo P. and Brescovit A.D. (Poster) First endemic arachnid from Isla Sala y Gómez (Motu Motiro Hiva), Chile: A new species of tube-dwelling spider (Araneae: Segestriidae). 2021 Virtual Meeting of the American Arachnological Society. June 24 - July 1, 2021.
- Cotoras D.D., O'Connell B., Griswold C., Simison W.B., Green R.E. and Shapiro B. (Oral presentation) A hybrid approach for genome assembly of the Hawaiian spider *Tetragnatha quasimodo*. VI Congreso Latinoamericano de Aracnología. December 14-18, 2020. Buenos Aires, Argentina.
- Cotoras D.D., Murray G.G.R., Kapp J., Gillespie R.G., Griswold C., Simison W.B., Green R.E. and Shapiro B. (Oral presentation) Ancient DNA, museum collections and fieldwork; reconstructing the fate of the only endemic spider of Rapa Nui. 2020 Reunión Anual Conjunta Sociedades de Biología de Chile. March 11-13, 2020. Valdivia, Chile
- Cotoras D.D., Bi K., Brewer M., Lindberg D., Prost S. and Gillespie R.G. (Oral presentation) Exon Capture reveals co-occurrence without hybridization of ecologically similar species within an Adaptive Radiation of Hawaiian spiders. 90 Aniversario de las Sociedades de Biología de Chile. November 20-22, 2018. Puerto Varas, Chile
- Cotoras D.D., Murray G.G.R., Kapp J., Gillespie R.G., Griswold C., Simison W.B., Green R.E. and Shapiro B. (Oral presentation) *Tetragnatha paschae*: The history of the only endemic spider from Rapa Nui narrated through ancient DNA, museum work and field surveys. International Conference Early Pacific migration & navigation and Easter Island-Chile. November 10-16, 2018. Hanga Roa, Rapa Nui. Chile
- Cotoras D.D. and Viquez C. (Oral presentation) Sympatric speciation or exceptional behavioral plasticity? Genetic consequences of niche partition in *Wendilgarda galapagensis* (Araneae, Theridiosomatidae) from Isla del Coco. I Simposio Internacional sobre la Isla del Coco. February 13-15, 2018. San José, Costa Rica
- Viquez C. and Cotoras D.D. (Oral presentation, co-author) Arachnids (Arachnida) from Isla del Coco, Costa Rica.* I Simposio Internacional sobre la Isla del Coco. February 13-15, 2018. San José, Costa Rica
- Cotoras D.D. and Jones A. (Poster) A glimpse of the biodiversity of UC Santa Cruz's Empire Cave. 18th Bay Area Conservation Biology Symposium 2017. May 6, 2017. Santa Cruz, CA. USA
- Cotoras D.D., Brewer M.S., Bi K., Prost S., Lindberg D.R. and Gillespie R. G. (Oral presentation) Genetic mosaic among ecologically similar species within an adaptive radiation of Hawaiian spiders. 20th International Conference of Arachnology 2016. July 2-9, 2016. Golden, CO. USA
- Cotoras D. Lindberg D.R. and Gillespie R.G. (Oral presentation) Color polymorphism on *Selkirkiella* spiders (Theridiidae) from the Juan Fernández archipelago and the Valdivian temperate rainforest. VIII Southern Connection Congress 2016. January 18-23, 2016. Punta Arenas, Chile
- Cotoras D. Lindberg D.R. and Gillespie R.G. (Oral presentation) Was Rapa Nui, the most remote island on the planet, colonized by a Neotropical spider? 5th Meeting of the Network for Neotropical Biogeography. January 14-15, 2016. Santiago, Chile
- Ramírez G., Gonzales C., Flores L., Cotoras D. and Villagra C. (Poster, co-author) Biodiversity studies in Isla de Pascua: abundance and distribution of díptera in Rapa Nui*. XXXVII National Congress of Entomology & II Southamerican Congress of Entomology. November 25-27, 2015. Temuco, Chile
- Cotoras D. and Gillespie R.G. (Oral presentation) The role of National Parks and other protected areas on preserving adaptive radiations: The case of the Hawaiian *Tetragnatha* spiders. Science for parks, Parks for Science: The next Century. May 25-27, 2015. Berkeley, CA. USA
- Cotoras D. and Gillespie R.G. (Oral presentation) Preliminary identification of protected areas with high diversity of *Tetragnatha* spiders on Big Island and Maui Nui. 22st Hawai'i Conservation Conference. July 15-17, 2014. Honolulu, HI. USA
- Cotoras D. and Gillespie R.G. (Oral presentation) Understanding the initiation of adaptive radiation using comparative phylogeography of spiders. Island Biology Conference. July 7-11, 2014. Honolulu, HI. USA

- Cotoras D. and Gillespie R.G. (Poster) Revealing unknown levels of diversity: Discovery of color change during life history of the endemic spider *Tetragnatha kamakou*. 21st Hawai'i Conservation Conference. July 16-18, 2013. Honolulu, HI. USA
- Gillespie R.G., Ewing C.P., Gruner D.S., Roesch Goodman K., Harte J., Magnacca K.N., Martinez N.D., Nielsen R., O'Grady P.M., Percy D., Price D.K., Rabosky D., Shaw K.L., Rominger A. and Cotoras D. (Poster, co-author) Assembly of Arthropod Communities in Hawaii: Can we predict the outcome given a modified dynamic? 21st Hawai'i Conservation Conference. July 16-18, 2013. Honolulu, HI. USA
- Cotoras D., Lindberg D. and Gillespie R. (Oral presentation) Phylogeography of the spider *Tetragnatha brevigynatha* in the context of an adaptive radiation. Hawai'i Ecosystems Meeting. July 7-8, 2013. Hilo, HI. USA
- Cotoras D., Brewer M, Lindberg D. and Gillespie R. (Poster) Another event of independent evolution in color polymorphism on Theridiidae spiders in the Pacific Ocean? 36th Annual meeting American Arachnological Society meeting. July 20-24, 2012. Green Bay, WI. USA (*Best poster presentation*)
- Cotoras D., Lindberg D. and Gillespie R. (Oral presentation) Hypothesis about speciation processes on Hawaiian *Tetragnatha* spiders. Hawai'i Ecosystems Meeting. July 2-3, 2012. Hilo, HI. USA
- Cotoras D., Lindberg D. and Gillespie R. (Oral presentation) Early stages of the *Tetragnatha* adaptive radiation in the Hawaiian archipelago. Hawai'i Ecosystems Meeting. June 30 – July 1st, 2011. Hilo, HI. USA
- Cotoras D., Casquet J. and Gillespie R. (Poster) Diversification patterns of *Tetragnatha* spiders in remote archipelagos on the Pacific Ocean. Evolution of Life on Pacific Islands and Reefs: Past, present, and future. May 26-30, 2011. Honolulu, HI. USA
- Cotoras D., Cambiazo V. and Allende M. (Oral Presentation) Conserved gene networks as a tool to predict gene expression: An example from Animal appendages. Genetics, Development, and Molecular Evolution Supergroup Symposium. May 18, 2011. UC Berkeley.
- Cotoras D., Cambiazo V. and Allende M. (Poster) Theoretical and experimental comparisons of gene network involved appendage development in arthropods (*Drosophila melanogaster*) and vertebrates (*Danio rerio*). 1st meeting of Chilean Scientists in USA: Nexos Chile-USA 2010. October 29, 2010, Washington D.C., USA
- Razeto-Barry P., Díaz J. and Cotoras D., Vásquez R. (Poster, co-author) Molecular evolution, mutation size and gene pleiotropy in fluctuating environments: a geometrical model. IV Binational Meeting in Ecology. August 08-13, 2010. Buenos Aires, Argentina.
- Croucher P., Lam A., Cotoras D., Mody N. and Gillespie R. (Poster) Phylogeography, diversity and colonization history of the Hawaiian happy-face spider. Annual symposium American Genetic Association: "Conservation Genomics". July 26-28, 2010. Hilo, HI. USA.
- Cotoras D., Cambiazo V. and Allende M. (Poster) In the footsteps of *Urbilateria**. LI Reunión Annual de la Sociedad de Biología de Chile. November 26-29, 2008. Pucón, Chile
- Cotoras D., Cambiazo V. and Allende M. (Poster) Evolution of the gene network involved in appendages development in arthropods (*D. melanogaster*) and vertebrates (*D. rerio*)*. XXII Reunión Annual de la Sociedad de Biología Celular de Chile. October 5-9, 2008. Pucón, Chile

*Presentation title translated.

11.- Technical reports

- 2019: Terrestrial invertebrates from Isla San Ambrosio, Islas Desventuradas. Island Conservation.
- 2018: Preliminary identification of terrestrial invertebrates from Alejandro Selkirk Island. Island Conservation.

12.- Invited presentations

- The Linnean Society of London. [September, 2021](#) (*invited*)
- Dr. Ambedkar College, Nagpur. August, 2021

- Facultad de Ciencias. Universidad Santo Tomás. [June, 2021](#)
- Comité Científico Técnico. Área de Conservación Marina Cocos. April, 2021
- Facultad de Ciencias. Universidad de Chile. [March, 2021](#)
- Institute of Pacific Islands Forestry. Hawai'i Experimental Tropical Forest. [November, 2020](#)
- Beckman Center for Conservation Research. San Diego Zoo Global. November, 2020
- Grupo de Estudio de Artrópodos da Amazônia (GEAA). Campus de Pesquisa do Museu Paraense Emílio Goeldi. [June, 2020](#)
- Wildlife Conservation Society – Punta Arenas, Chile. February, 2020
- Island Conservation. October, 2019
- Institute for Biodiversity Science and Sustainability. California Academy of Science. October, 2019
- EvoLab. University of California, Berkeley. October, 2019
- Arachnology dept. Museo Argentino de Ciencias Naturales. October, 2019
- Ecology and Evolution Unit. Okinawa Institute of Science and Technology. September, 2019
- Naos Island Laboratory. Smithsonian Tropical Research Institute. August, 2019
- Australian Museum. May, 2019
- Riginos Research Group. University of Queensland. May, 2019
- Lizard Island Research Station. April, 2019
- Tupper seminar. Smithsonian Tropical Research Institute. February, 2019
- Parque Nacional Isla del Coco. February, 2019
- Parque Nacional Isla del Coco. August, 2018
- Bocas del Toro Research Station. Smithsonian Tropical Research Institute. July, 2018
- Marine Invertebrate Systematics and Ecology lab. University of the Ryūkyūs. May, 2018
- Ecology and Evolution Unit. Okinawa Institute of Science and Technology. April, 2018
- Biodiversity & Biocomplexity Unit. Okinawa Institute of Science and Technology. April, 2018
- Departamento de Química. Pontificia Universidad Católica de Valparaíso. March, 2018
- Tupper seminar. Smithsonian Tropical Research Institute. January, 2018
- Bambi seminar. Barro Colorado Island, Smithsonian Tropical Research Institute. January, 2018
- Essig Museum of Entomology. University of California, Berkeley. December, 2017
- Institute for Biodiversity Science and Sustainability. California Academy of Science. December, 2017
- "Fieldwork in the Life and Earth Sciences" (poster) The Linnean Society of London. November, 2017
- Departamento de Ecología. Pontificia Universidad Católica de Chile. January, 2017
- Limahuli National Tropical Botanical Garden. June, 2016
- Hawai'i Institute of Marine Biology. June, 2016
- Ecology, Evolution and Conservation Biology dept. University of Hawai'i, Mānoa. June, 2016
- Department of Land and Natural Resources. State of Hawai'i. June, 2016
- Island Conservation. February, 2016.
- Programa de Genética Humana. Universidad de Chile. January, 2016.
- Departamento de Ecología. Pontificia Universidad Católica de Chile. December, 2015
- Facultad de Ciencias. Universidad de Chile. December, 2015.
- Entomology dept. University of California, Riverside. November, 2015.
- Marine Invertebrate Systematics and Ecology lab. University of the Ryūkyūs. October, 2015.
- Okinawa Institute of Science and Technology. October, 2015.
- Hawai'i Institute of Marine Biology. June, 2015
- Departamento de Ecología. Pontificia Universidad Católica de Chile. January, 2015
- La Selva Biological Station. Organization for Tropical Studies. November, 2014
- California Academy of Sciences. June, 2014
- "Chile Seminars". University of California, Berkeley. May, 2014
- Paleogenomics lab. University of California, Santa Cruz. April, 2014
- University and Jepson Herbaria of the University of California, Berkeley. September, 2013
- "Chalk Talk" Integrative Biology dept. University of California, Berkeley. April, 2013
- Parque Nacional Rapa Nui. August, 2012
- Instituto de Entomología. Universidad Metropolitana de Ciencias de la Educación. July, 2012
- Pacific Coast Entomology Society. February, 2012

- Arachnology dept. California Academy of Science. September, 2011
- Laboratorio de Ecología Evolutiva. Universidad de Chile. August, 2011
- Instituto de Entomología. Universidad Metropolitana de Ciencias de la Educación. August, 2011
- Instituto de Filosofía y Ciencias de la Complejidad. July, 2010

13.- Professional development

Certifications

- Cardiopulmonary resuscitation (CPR) and automated external defibrillator (AED). American Heart Association. UC Santa Cruz. Santa Cruz, CA (October 27, 2016)
- Wilderness First Aid. NOLS - National Outdoor Leadership School. Santa Cruz, CA (October 24-25, 2015)
- B3 Combination Helicopter/Airplane Safety. Interagency aviation training. (May 26, 2013)
- Wilderness First Aid. Foster Calm–First Aid and Leadership Trainings. Palo Alto, CA. (April 02-03, 2011)
- Cardiopulmonary resuscitation (CPR) and automated external defibrillator (AED) for the Community and Workplace. American Safety & Health Institute. Foster Calm–First Aid and Leadership Trainings. Palo Alto, CA. (April 02, 2011)

Courses / Workshops

- Deutsch Online Individual A2. Goethe Institut. (June 01 – July 31, 2021)
- Deutsch Online Individual A1. Goethe Institut. (April 01 – May 31, 2021)
- Skill Pill: 3D printing. Okinawa Institute of Science and Technology. Okinawa, Japan (May, 14 and 16, 2018)
- Introduction to Python programming on the cluster. Okinawa Institute of Science and Technology. Okinawa, Japan (April, 16, 18, 23, 2018)
- Shotgun Metagenomic Workshop. UC Santa Cruz. Santa Cruz, CA (April 22-23, 2017)
- RADseq - Stacks Workshop. California Academy of Sciences. San Francisco, CA (March 12, 2016)
- Training visit to the Ecology and Evolution Unit of the Okinawa Institute of Science and Technology to learn ancient DNA methods. (October 9-19, 2015)
- Training visit to the Arachnology section of Senckenberg Museum to learn about spider morphology. (September 1-21, 2012)
- Webinar Short Course on Modeling Patterns and Dynamics of Species Occurrence. US Geological Survey and Proteus Wildlife Research Consultants. (August 23-27, 2010)
- Exploring genomes with ENSEMBL. Center for Genomics of the Cell (CGC). Santiago, Chile. (January 13-14, 2009)
- Workshop on Modeling of Genetic Regulatory and Metabolic Networks. Instituto de Sistemas Complejos de Valparaíso (ISCV). Valparaíso, Chile. (March 27-28, 2008)
- VI Complex Systems Summer School. Instituto de Sistemas Complejos de Valparaíso (ISCV). Valparaíso, Chile. (January 07-11, 2008)

SCUBA diving

- CMAS Scientific Diver (CHI/F00/C60/18/00003). First International Scientific Diving course Chile 2018. Quintay, Chile (October 11-15, 2018)
- SSI Master Diver (730387F5888639876509-AR). In Acqua Buceo. Buenos Aires, Argentina (May 5, 2020)
- SSI Specialty Course: Diver Stress & Rescue (801212N3040727535186-US). Bamboo Reef School. Monterey, CA (May 08, 2011)
- PADI Advance SCUBA Diver (10100T3129). Seattle SCUBA School. Monterey, CA. (October 03, 2010)
- NAUI Open water Diver (vied020986darsd). Cal Dive and Travel. Berkeley, CA (June 1st, 2010)
- SSI Specialty Course: Science of Diving (730387A5894966544057-AR). In Acqua Buceo. Buenos Aires, Argentina (May 18, 2020)

- SSI Specialty Course: Enriched Air NITROX (801196M3308478325927-US). Bamboo Reef School. San Francisco, CA (February 22, 2012)
- SSI Specialty Course: Dry Suit Diving (801212Z3040126481181-US). Bamboo Reef School. Monterey, CA (May 08, 2011)
- SSI Specialty Course: Boat Diving (OBA.PADI.25152.10100T3129). Bamboo Reef School. Monterey, CA (October 03, 2010)
- SSI Specialty Course: Night Diving and Limited Visibility (OBA.PADI.25143.10100T3129). Bamboo Reef School. Monterey, CA (October 03, 2010)
- SSI Specialty Course: Navigation (OBA.PADI.25144.10100T3129). Bamboo Reef School. Monterey, CA (October 03, 2010)
- SSI Specialty Course: Deep Diving (OBA.PADI.25153.10100T3129). Bamboo Reef School. Monterey, CA (October 03, 2010)
- Divers Alert Network (DAN): Assurance of breathing gas quality. DAN eLearning (June 7, 2020)
- Divers Alert Network (DAN): Dive boat safety best practices. DAN eLearning (June 7, 2020)
- Divers Alert Network (DAN): Emergency Oxygen for Scuba Diving Injuries (2656749). Aquasafaris. Santa Cruz, CA (September 22, 2016)
- SSI Snorkeling (730387R5866756857134-AR). In Acqua Buceo. Buenos Aires, Argentina (April 15, 2020)

14.- Outreach

Essays and Blogs

- ["Lo que no sabe el "Big Data" y sus consecuencias para la protección de la biodiversidad"](#) Ladera Sur (March 18, 2021)
- ["Enseñado en una sala de clases salvaje"](#) Parque Kapalapi, Boletín N°26 September 2020
- Cotoras DD. 2020. An Ancient connection across the Pacific. *Australasian Arachnology* 89: 4-7.
- Cotoras DD. 2020. A wild classroom. *Amigos Newsletter. Wilson Botanical Garden & Las Cruces Biological Station (Organization for Tropical Studies)* 93: 8.
- ["In the era of "Big Data", let us take you to the frontier where there is no data"](#) Organization for Tropical Studies (January 26, 2020)
- ["The urgency of biodiversity discovery"](#) Lizard Island Reef Research Foundation (June 25, 2019)
- ["Teaching on a wild classroom"](#) Organization for Tropical Studies (February 22, 2019)
- ["Hawaiian spiders teach us about how explosive diversification happens"](#) BMC Series Blog (July 4, 2018)
- ["Historias de diversificación y extinción en Tepito O Te Henua"](#) Chile Indómito magazine. December 2013. 8: 81-86.
- ["Field work after a mass extinction"](#) California Academy of Sciences Blog (June 14, 2013)
- ["Field work during a mass extinction"](#) UCMP Blog (March 26, 2012)
- ["The eternal value of Natural History and the dazzling molecular promise"](#) UCMP Blog. (November 23, 2011)
- "El eterno valor de la historia natural y la encandilante promesa molecular" RedCiencia.cl (August 4, 2011)
- ["Ciencia Básica VS Ciencia Aplicada: Una ilusión basada en la no comprensión"](#) RedCiencia.cl (May 26, 2011)
- ["¿Calentamiento global o cambio global?"](#) Conexioniberoamerica.wordpress.com (February 26, 2010)

Educative posters and field guides

- [Beetles \(Coleoptera\) of Lizard Island Group](#) (Cotoras D.D. and McCormack J.J)
- Contribution to Lizard Island Field Guide. [Coleoptera](#): 78 species, 229 pictures. (Cotoras D.D. and McCormack J.J)
- Spiders of Manquemapu, Chile (Cotoras D.D.)
- Field guide of the island lady beetles from Chile (Coleoptera: Coccinellidae) (González G., Cotoras D.D. and Grez A.A.)
- Spiders of the Society Islands (French Polynesia) (Cotoras D.D.)
- Arachnids of the Arenal Volcano area, Costa Rica (Cotoras D.D. and Almengor G.)

- Some spiders from the Oak forest and Páramo of Costa Rica ([Cotoras D.D.](#), Kulkarni S., Carvajal A.N., Deshwal A., Pardo C., Powell E. and Schumacher E.)
- Arachnids of South-Central Chile ([Cotoras D.D.](#), Aguilera M., Ojanguren A. and Pérez A.)
- [A photographic guide to the arachnids of Drake Bay, Costa Rica](#) (Gómez G., Stice T., Viquez C., Longhorn S. and [Cotoras D.](#))
- [Arachnids of Isla del Coco, Costa Rica](#) ([Cotoras D.D.](#) and Viquez C.)
- [A glimpse of the Biodiversity of UC Santa Cruz's Empire Cave](#) ([Cotoras D.D.](#) and Jones A.)
- [Arachnids of Barro Colorado Island and surroundings, Panamá](#) (Escalante I. and [Cotoras D.D.](#))
- [Some arachnids of La Selva Biological Station, Costa Rica](#) (Escalante I. and [Cotoras D.D.](#))
- [Arachnids of Las Cruces Biological Station, Costa Rica](#) ([Cotoras D.D.](#) and Escalante I.)
- [Native Hawaiian *Tetragnatha* spiders](#) ([Cotoras D.D.](#))
- [Spiders of Rapa Nui](#) ([Cotoras D.D.](#))

Public presentations

- "Conociendo a los vecinos: Arácnidos de San Vito" ([1/2](#)) Facebook Live Finca Cántaros (July 9, 2021)
- [Conservation Icons](#). Lindsay Wildlife Experience (April 22, 2021)
- ["Stories of traveling spiders with Dr. Cotoras"](#) The Bugscope (March 11, 2021)
- ["Descubriendo a las arañas de Manquemapu"](#) Facebook Live Museo de Historia Natural de Purranque (December 10, 2020)
- ["Historia natural de las islas oceánicas de Chile"](#) Facebook Live Naturalistas Chile (November 2, 2020)
- [26° Ciclo de Charlas](#). #CuarentenaConCiencia #IslasOceánicas. Co-organizer with Facebook group "Naturalistas Chile" (November 2-7, 2020)
- ["Efecto de la evolución geológica de Hawai'i en la formación de nuevas especies de arañas"](#) Universidad Católica del Maule (September 10, 2020)
- Guest lecturer on Rainforest Naturalists Summer camp. Sternberg Science Camps. Fort Hays State University. Kansas, USA. (July 24, 2020)
- ["Conociendo a los vecinos: Arácnidos de San Vito"](#) Facebook Live Finca Cántaros. (July 2, 2020)
- ["Qué sucedió con la única araña endémica de Rapa Nui?"](#) Facebook Live Naturalistas Chile (April 2, 2020)
- ["Habitantes Nocturnos"](#) Parque Etnobotánico Omora. Isla Navarino, Chile (February 13, 2020)
- ["Conociendo a los vecinos: Arácnidos de San Vito"](#) Finca Cántaros. San Vito, Costa Rica (January 2, 2020)
- "Taller de Arañas" Workshop for parkrangers. Parque nacional Pumalín Douglas Tompkins. Chile (December 2 2019).
- "Descubriendo los arácnidos de Manquemapu" ([1/2](#)) IV Seminario de Estudios locales. Municipalidad de Purranque (November 26, 2019)
- "Taller de Arañas" Workshop for naturalist guides. Casa Corcovado. Península de Osa, Costa Rica (August 10, 2019).
- Special guest on Arachnology workshops lead by Robert Whyte at The Planting Festival. Woodford, Queensland. Australia (May 4-5, 2019)
- "Introducción a la Ecología y arañas del Parque Karukinka" Workshop for staff and volunteers of Parque Karukinka. Tierra del Fuego, Chile (March 6 and 14, 2019)
- "Arañas de la zona del Volcán Arenal" Workshop for naturalist guides. Sky Adventures Arenal Park. La Fortuna, Costa Rica (February 9, 2019).
- "Taller de Arañas" Workshop for naturalist guides. Callidryas tours and Arenal Oasis Eco Lodge & Wildlife Refuge. La Fortuna, Costa Rica (February 7, 2019).
- Seminar on board of Okeanos Agressor II -SCUBA diving vessel- (February 3, 2019)
- Seminar on board of Okeanos Agressor II -SCUBA diving vessel- (August 23, 2018)
- ["Aracnólogos por un día"](#) Open workshop at La Paloma lodge. Bahía Drake, Costa Rica (May 29, 2018)
- "Naturalist Night" Santa Cruz Museum of Natural History (September 28, 2017)
- Seminar on board of Okeanos Agressor I -SCUBA diving vessel- (July 9, 2017)
- Guide of lab tours for local High School students. Paleogenomics lab. UC Santa Cruz (2017)

- "Lunch with a Scientist" Pacific Collegiate School. Santa Cruz, CA (December 1st, 2016)
- Earth Update planetarium show at Night Life. California Academy of Sciences (July 3, 2014)
- Show insect displays at the Essig Museum for Cal Day -UC Berkeley open house- (2014-2011)
- "Dinner with a Scientist" Oakland Zoo, CA. (May 4, 2011; June 3, 2010)

Media Coverage

- "Separación de clanes de Rapa Nui favoreció su diversidad cultural" El Mercurio (May 13, 2021)
- ["The Ecological Web of Cocos Island"](#) Island Conservation (March 23, 2021)
- ["A tiny spider can spin different types of web for land, air and water"](#) New Scientist (February 17, 2021)
- [Interviewed](#) by Radio Guayacán (37:14 – 47:16; January 28, 2021)
- ["Estudio de la biodiversidad en islas \(Darko D. Cotoras\)"](#) Nexos Chile-USA (January 22, 2021)
- ["Biólogo destacó turismo nocturno de Manquemapu durante su Charla 'Descubriendo las arañas de Manquemapu'"](#) Purranque FM (December 14, 2020)
- [Interviewed](#) by "Fragmentos de Okazaki" (October 22, 2020)
- ["Araña Gondwánica e importancia cultural de artrópodos Fueguinos"](#) Memoria Anual Wildlife Conservation Society Chile 2019. p. 25
- ["Arañas de Rapa Nui"](#) Mario Elgueta, Museo Nacional de Historia Natural (May 19, 2020)
- ["Artrópodos en Karukinka"](#) Wildlife Conservation Society Chile (July 11, 2019)
- ["Interview with Darko Cotoras: LIRRF fellowship recipient"](#) Lizard Island Reef Research Foundation (June 24, 2019)
- [Interviewed](#) by Purranque FM (October 29, 2018)
- ["Chilenos que se fueron lejos y llegaron lejos"](#) Revista Capital (December 21, 2017)
- ["Castaway Ghost Spiders Flew to Robinson Crusoe Island"](#) National Geographic. (December 2, 2016)
- [Interviewed](#) by "The Graduate" KALX 90.7FM (October 20, 2015)
- ["Scientific helicopter expedition to the top of the island of Tahiti, July 2015"](#) MOVECLIM - MONTANE VEGETATION AS LISTENING POSTS FOR CLIMATE CHANGE. (July 20, 2015)
- ["Deux entomologistes américains à la recherche de nouvelles espèces polynésiennes"](#) Tahiti-Infos. (July 6, 2015)
- Interviewed by "DESCARO" Chilean Skateboarding magazine (September 7, 2013)
- ["Humedal Rano Kau. Manavai de Biodiversidad"](#) Parque Nacional Rapa Nui
- ["Meet your fellow companions"](#) Sigma Xi, The Scientific Research Society (2011)
- ["Chilean Fulbrighter Darko Cotoras Viedma"](#) Fulbright Foreign Student Program (2010)
- ["Licenciado en Biología representa a la Universidad de Chile al adjudicarse importante beca española"](#) Facultad de Ciencias, Universidad de Chile (July 4, 2008)

15.- Professional service

Invited reviewer for:

Journals: Animals, Diversity and Distributions, Mathematics, International Journal of Molecular Sciences (2), PLoS ONE, Revista Chilena de Historia Natural, Ecography, Ecology and Evolution, Journal of Genetics and Genome Research, Molecular Phylogenetics and Evolution, Journal of Biogeography (4), Journal of the San Diego Natural History Museum, Animal Biology, Guyana and Pakistan Journal of Zoology.

Funding agencies: Ciencia de Fronteras - Consejo Nacional de Ciencia y Tecnología, México (CONACYT), Graduate Student Research Awards - Society of Systematic Biologists (SSB GSRA) (2), Fondo Clemente Estable - Agencia Nacional de Investigación e Innovación de Uruguay (ANII), Graduate Women in Science (GWIS), and National Science Foundation (NSF USA)

Symposium organizer:

- "Genomic approaches to study a natural laboratory between the Andes and the Pacific" 2020 Annual Joint meeting of the Chilean Societies of Biology (co-organized with Miguel L. Allende)

16.- Professional societies

- The Linnean Society of London (*Foreign fellow*)
- Phi Beta Kappa Academic Honor Society
- Sigma Xi, The Scientific Research Society

17.- Languages

Spanish (native), English (fluent) and German (elementary, A2)

18.- Other interests

Skate, Surf, Bodyboard, Skimboard, Snowboard, Mountain bike, Mythology and Tropical ornamental fish



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