

PERSONAL DATA

Name: Anaisa CAJIGAS GANDIA

Date and birth place: October 27, 1995; Pinar del Río, Cuba.

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PROFESSIONAL DATA

EDUCATION

2019/2021: Master de Sciences, Technologies, Santé; mention: Biologie de la Conservation; parcours type: Behavioural Ecology and Wildlife Management.

Master Program at University of Bourgogne, Dijon, France. (Result: Admis; Mention: Assez Bien; European credits: 120)

2013/2018: Bachelor in Biology (5 years) – Universidad de La Habana – Cuba

(Academic score: 4.36; 13rd /46 students)

COURSES AND POSTGRADES

- 1- 14-15/7/2022: **Publication of Biodiversity Data with IPT (Integrated Publishing Toolkit).** Instructors: Paula F. Zermoglio, Anabela Plos, Florencia Grattarola. Online workshop as part of the project Extending knowledge on biodiversity data quality and publication in the Spanish-speaking community (Capacity Enhancement Support Programme of GBIF).
- 2- 4-8/07/ 2022: **GIS Challenge, Biodiversity and Environment.** Instructor: MSc. Steven Mora. Online academy: Instituto Ambiental GIS. Colombia
- 3- 06/2022: **Ecology studies, Conservation Biology and Biodiversity.** Online course in Alison platform.
- 4- 30-04-2022: V Pedagogical encounter at Havana. Lic. Lenin Alberto Bohórquez Carrullo. Universidad Cristóbal Colón, México.
- 5- 09/2019: **Second International Student Course in Behavioural Biology.** Organised by the Institut Francilien d’Ethologie at the Université Paris 13.
- 6- 05/2019: **Ecological niche modelling.** Instructor: PhD. Carlos A. Mancina, Instituto de Ecología y Sistemática.

- 7- 04/2019: **Biogeography**. Instructor: PhD. Roberto Alonso Bosch, Universidad de La Habana.
- 8- 01-02/2019: **Fundamentals of R**. Instructor: MSc. Anabelle Vidal Bertuccioli, Instituto de Ecología y Sistemática.
- 9- 11/2018-January/2019: **Bioestatics**. Instructor: PhD. Leneidy Pérez Pelea, Universidad de La Habana.
- 10- 10-12/2018: **Research Methodology**. Instructor: PhD. Roberto de Armas Urquiza, Universidad de La Habana.
- 11- 08/2016: **Design of field studies for Conservation and related fields**. Instructor: PhD. Michel Faife Cabrera, Universidad Central de Las Villas Marta Abreu

LANGUAGES

- Spanish Native
- English Advanced – University Cristóbal Colón, Mexico.
B2 level- OnSET English Placement Test

ACADEMIC ACTIVITIES

- 1- 02-11/2022: Advisor of one undergraduate student of Biology (Raquel Aguilera) in her research project for the class Práctica Laboral II and Degree research. Research title: *Current climatic variation and possible effects on the distribution of unique anoles (Squamata: Dactyloidae) under future scenarios of climate change*
- 2- 07-09/2021: Advisor of one undergraduate student of Biology (Raquel Aguilera) in her research project for the class Práctica Laboral I. Research title: *Climate change effects on the distribution of unique anoles (Squamata: Dactyloidae) in Cuba*
- 3- 05-07/2019: Advisor of one team of undergraduate students of Biology in their research project for the class Trabajo Biológico de Campo II. Research title: *Environmental factors that influences the fitness in an anole lizard in two localities at Havana province, Cuba*
- 4- 02-07/2019: Advisor of one undergraduate student of Biology (Elianys Sánchez) in her research project for the class Práctica Laboral I. Research title: *Thermic segregation among trunk-ground Anolis lizards in Viñales National Park, Cuba*

MEMBERSHIPS

- Sociedad Cubana de Zoología (Cuban Society of Zoology)
- Sociedad Cubana de Botánica (Cuban Society of Botany)
- Caribaea Initiative
- Red Mesoamericana y del Caribe para la Conservación de Anfibios y Reptiles (Mesoamerican and Caribbean Network for Amphibians and Reptiles Conservation)
- Sociedad Mesoamericana para la Biología y la Conservación (Mesoamerican Society for Biology and Conservation)

PROFESSIONAL EXPERIENCE

Occupation

10/2018- current: Superior technician for Science, Technology and the Environment – Institute of Ecology and Systematic – Cuba

- Department of Zoology, Specialist in Herpetology
- Scientific category: Aspiring Researcher

Technical abilities

- 1- Fieldwork: conservation assessments in protected areas (Cuba, France); herpetological surveys in Cuba and France (measuring biotic and abiotic variables, morphometric and temperature data in reptiles for thermoregulation and ecomorphological studies)
- 2- Data analysis in Excel, PAST, and R: Basic statistics, Multivariate analysis (Principal Component Analysis, Multivariate and Multiple Linear Models), Generalized Linear Models (GLM)
- 3- Geographic Information Systems (GIS): ArcGIS
- 4- Ecological Niche Modelling: Maxent, Niche Analyst
- 5- Geometric Morphometrics Analysis
- 6- Taking samples of liver and muscle tissues from reptiles for molecular analysis
- 7- Herpetological collections maintenance at the Institute of Ecology and Systematic

SCIENTIFIC MEETINGS

- 1- 13/09/2022: XXV Congress of the Mesoamerican Society for Biology and Conservation
 - Location: México-Virtual
 - Research Title: Cuban anoline lizards under future scenarios of climate change: species, ecomorphs, and climatic variability (authors: **Anaisa Cajigas**, Roberto Alonso, Carlos Mancina, Anthony Herrel)
- 2- 23/03/2022: XIX Scientific-Technical Forum from the Institute of Ecology and Systematic.
 - Location: Institute of Ecology and Systematic
 - Research title: *Climate change and Biodiversity in Cuba: adaptation and prioritization areas for conservation* (authors: Claudia Vega.... **Anaisa Cajigas**...).
- 3- 09/2019: Second International Student Course in Behavioural Ecology.
 - Location: Université Paris 13, Paris, France
- 4- 05/2019: 1st Herpetological Meeting: Luis V. Moreno (national meeting)
 - Location: National Botanical Garden, Cuba
 - Member of the Coordinator Committee
 - Research title (1): *Is there a direct relationship between the head shape and trophic overlap in sympatric species? Case study: genus Tropidophis (Squamata: Tropidophiidae)* (authors: **Anaisa Cajigas**, Javier Torres, Majela Hernández, Tomás M. Rodríguez-Cabrera, and Vicente Berovides)
 - Research title (2): *Analysis spatially explicit of endemism areas of the terrestrial reptiles of Cuba* (authors: Carlos Mancina and **Anaisa Cajigas**)
- 5- 11/2018: Encounter of the Biological Diversity in Cuba (national meeting).
 - Location: University of Havana
 - Research Title: *Relationship between head shape and trophic overlap in three sympatric species of genus Tropidophis (Squamata: Tropidophiidae)* (authors: **Anaisa Cajigas**, Javier Torres, Majela Hernández, Tomás M. Rodríguez-Cabrera, and Vicente Berovides)
- 6- 05/2018: Event BIODIVERSOS (national meeting)
 - Location: Botanical Garden of Sancti Spiritus province, Cuba

- Research title: *Characterization of trophic niche of three sympatric species of genus Tropidophis in Central Cuba* (authors: **Anaisa Cajigas**, Javier Torres, and Tomás M. Rodríguez-Cabrera)
- 7- 11/2017: Encounter of the Biological Diversity in Cuba (national meeting).
- Location: University of Havana
 - Research Title: *Herpetofauna of Caguanes key, in North-Central Cuba* (authors: **Anaisa Cajigas**, Javier Torres, Armando Falcón, and Tomás M. Rodríguez-Cabrera)
- 8- 01/2017: Event CubaZoo (international meeting)
- Location: National Zoological Park of Cuba, Cuba.
 - Research Title: *Experiences in maintenance and reproduction of snakes of genus Tropidophis (Tropidophiidae) in captivity* (authors: **Anaisa Cajigas**, Javier Torres, and Tomás M. Rodríguez-Cabrera)
- 9- 11/2016: Encounter of the Biological Diversity in Cuba (national meeting)
- Location: National Botanical Garden, Cuba.
 - Research Title: *Characterization of diet of three sympatric species of the genus Tropidophis (Tropidophiidae) in Cuba.* (authors: **Anaisa Cajigas**, Tomás M. Rodríguez-Cabrera, Javier Torres, and Rubén Marrero)
- 10- 11/2015: Encounter of the Biologic Diversity in Cuba (national meeting)
- Location: National Botanical Garden, Cuba.
 - Research Title: *Distribution and conservation of Ayenia cajalbanensis (Sterculiaceae): a Critically Endangered plant endemic from a unique landscape in Cuba* (author: **Anaisa Cajigas**)

PUBLICATIONS

- 1- **Cajigas, A.**, Bosch, R.A., Mancina, C.A., Herrel, A. Climatic variation along the distributional range in Cuban *Anolis* lizards: species and ecomorphs under future scenarios of climate change. (Master thesis manuscript sent to *Global Ecology and Conservation*)
- 2- Iturriaga, M.M., Alonso-Bosch, R., and **Cajigas, A.** 2022. Protocolo para el monitoreo de las poblaciones de *Peltophryne longinasa dunnii* (Anura: Bufonidae) en Topes de Collantes. Pp:117-129, en: Velazco Pérez, K., B. Neyra Raola y C. A. Mancina (eds.) (2022). Integridad ecológica en áreas protegidas de Cuba: primeras experiencias en ecosistemas montañosos. Editorial AMA, La Habana.

- 3- **Cajigas, A.** 2022. Protocolo de monitoreo de *Anolis allogus* en el bosque siempreverde del APRM Reserva de la Biosfera Sierra del Rosario. Pp: 130-133, en: Velazco Pérez, K., B. Neyra Raola y C. A. Mancina (eds.) (2022). Integridad ecológica en áreas protegidas de Cuba: primeras experiencias en ecosistemas montañosos. Editorial AMA, La Habana.
- 4- Velazco Pérez, K., **Cajigas, A.**, López, Y. y González, A. 2022. Pp: 135-143, en: Velazco Pérez, K., B. Neyra Raola y C. A. Mancina (eds.) (2022). Integridad ecológica en áreas protegidas de Cuba: primeras experiencias en ecosistemas montañosos. Editorial AMA, La Habana.
- 5- Fuentes, I.M., **Cajigas, A.**, Vega, C., *et al.* 2022. Integridad ecológica del Área protegida de Recursos Manejados Reserva de la Biosfera Sierra del Rosario. Pp: 156-162, en: Velazco Pérez, K., B. Neyra Raola y C. A. Mancina (eds.) (2022). Integridad ecológica en áreas protegidas de Cuba: primeras experiencias en ecosistemas montañosos. Editorial AMA, La Habana.
- 6- Del Castillo, S., and **Cajigas, A.** 2022. Atlas de Riesgo: *Anolis*. Pp. 59, 124-133, en: El cambio climático y la biodiversidad en Cuba: impactos, adaptación y áreas prioritarias para la conservación (C. A. Mancina, C. Vega-Catalá, S. L. del Castillo y I. M. Fuentes, eds.). Editorial AMA, La Habana. 208 pp.
- 7- **Cajigas, A.**, Torres, J., and Rodríguez-Cabrera, T.M. 2022. Anti-predation behavior in Bearded Anoles (Dactyloidae: *Anolis*, clade Chamaeleolis): A Review. *IRCF Reptiles and Amphibians* 29: 298–304.
- 8- Rodríguez-Cabrera, T.M., Torres, J., Morell, E.S., and **Cajigas, A.** 2022. Trophic niche partitioning and overlap in three co-occurring species of the genus *Tropidophis* (Squamata: Tropidophiidae) in central Cuba. (Sent to *Journal of Herpetology*).
- 9- **Cajigas, A.**, Torres, J., and Rodríguez-Cabrera, T.M. 2022. Autohemorrhaging behavior in Cuban dwarf boas, genus *Tropidophis* (Serpentes: Tropidophiidae). *Poeyana* 513.
- 10- **Cajigas, A.**, Velazco, K., and Hernández, C. 2020. *Anolis garridoi* (Escambray Twig Anole): distribution note. *Herpetological Review* 51(3): 538.
- 11- Alonso, R., and **Cajigas, A.** 2020. Cuban Society of Zoology and its Herpetological Section. *World Congress of Herpetology* 1(1): 66.
- 12- **Cajigas A.**, and Velazco, K. 2019. *Arrhyton taeniatum*: distribution note. *Herpetological Review* 50 (4): 748.

- 13- Velazco, K, Estrada, F. and **Cajigas A.** 2019. *Typhlops leptolepis*: distribution note. Herpetological Review 50 (4): 749.
- 14- Torres, J., Martínez-Muñoz, C.A. and **Cajigas, A.** 2019. *Typhlops leptolepis*: distribution note. Herpetological Review 50 (1):107.
- 15- Torres, J., Rodríguez-Cabrera, T. M. and **Cajigas, A.** 2018. Geographic distribution: *Eleutherodactylus pinarensis*. Herpetological Review 49 (2).
- 16- **Cajigas A.**, Reina J., and Torres J. 2018. An Instance of Nectarivory in a Cuban Green Anole, *Anolis porcatius* (Squamata: Dactyloidae). IRCF Reptiles and Amphibians 25(1):37–39.
- 17- **Cajigas A.**, Torres J., and Rodríguez-Cabrera T.M. 2018. Survival on Three Legs: The Case of a Cuban Knight Anole, *Anolis equestris* (Dactyloidae). IRCF Reptiles & Amphibians 25(1):35–36.
- 18- Torres J., **Cajigas A.**, and Bermúdez F. 2018. Geographic distribution: *Typhlops silus*. Herpetological Review 49(1): 80.
- 19- **Cajigas A.**, Torres J., and Torres O. 2018. Geographic distribution: *Tropidophis maculatus* (Spotted Red Trope). Herpetological Review 49(1): 80.
- 20- **Cajigas, A.**, Torres J., and Torres O.J. 2015. A new trophic resource in the diet of the Saw-Scaled Curly Tail *Leiocephalus carinatus* (Squamata: Leiocephalidae) from Cuba. IRCF Reptiles and Amphibians 22(4):150–152.

RESEARCH PROJECTS

- 1- 2022-...: *Biodiversity and sustainable tourism development in the face of climate change in coastal ecosystems of two priority areas of Cuba*
 - Funding: GEF-PNUD
 - Coordinator: MSc. Zehnia Cuervo Reinoso
- 2- 2022: *“First learn, then act: identifying the main threats for Cuban endemic reptiles and prioritization areas for their conservation”*
 - Funding: Idea Wild Foundation, United States (granted, starts in January 2023)
 - Coordinator: Anaisa Cajigas Gandia
- 3- 2019-2021: *Cuban anoles under future scenarios of climate change: How do species and ecomorphs respond to climatic variability* (Master research project)

Curriculum Vitae Anaisa CAJIGAS GANDIA

- Funding: Caribaea Initiative, France
 - Advisors: PhD. Roberto Alonso Bosch, PhD. Carlos Mancina, PhD. Anthony Herrel
- 4- 01/2019- current: *Biological diversity associated to mountain ecosystems of Western and Central Cuba.*
- Funding: GEF-PNUD
 - Coordinator: PhD. Marta M. Hidalgo-Gato González
- 5- 01/2017- 10/2018: *Distribution and conservation of Ayenia cajalbanensis (Sterculiaceae): a Critically Endangered plant endemic from a unique landscape in Cuba*
- Funding: Idea Wild Foundation, United States
 - Coordinator: Anaisa Cajigas Gandia
- 6- 01-12/2015: *Conservation of the poorly known snake Tropidophis celiae: a Cuban endemic species living in a very threatened habitat*
- Funding: Mohamed bin Zayed Species Conservation Fund.
 - Coordinator: MSc. Javier Torres López

AWARDS

- 2022/March/23: The research presented in the XIX Scientific-Technical Forum from the Institute of Ecology and Systematic got a **Relevant** position in the competition. Research title: *Climate change and Biodiversity in Cuba: adaptation and prioritization areas for conservation* (authors: Claudia Vega.... Anaisa Cajigas...).
- 2021/December/22nd: Recognized as one of the **Better Workers** at the Institute of Ecology and Systematics in the year 2021 by actively participating in scientific, academic and volunteering activities.
- 2018/July/4th: Rector of the University of Havana gave me the: **Scientific Merit Award**, granted to graduate student with a relevant academic and research trajectory.