

Lina Marcela Ruiz Galvis

Add. 90 N° 44 B - 32, Medellín, Colombia

(+57) 305 339 81 39 - lina.ruiz2@udea.edu.co

EDUCATION

Magister in Biology (in course)

2019 University of Antioquia, Medellín, Colombia.

Research's title: "Study and modeling of the dynamic properties of minimum systems of transcriptional regulation in animal development".

Advisers: Gloria Machado Rodriguez, PhD. in Molecular Biology, Autonomous University of Madrid; Boris A. Rodriguez Rey, PhD. in Physics, University of Antioquia, Medellín, Colombia.

BA in Biology

2018 University of Antioquia, Medellín, Colombia.

Project's title: "Evolutionary dynamics of tag-based altruism considering the effect of inbreeding depression".

Adviser: Boris A. Rodriguez Rey, PnD. in Physics, University of Antioquia, Medellín, Colombia.

TEACHING EXPERIENCE

Scientific divulgation

2017-2021 Group of Studies in Evolutionary Biology

- We coordinate and lead discussion about different subjects related to evolutionary biology.
- We coordinate and lead discussion about biodiversity and climate change.
- We have the support of ColEvol, Explora Park and Medellín's Planetarium.

Research project adviser of Master Student Oscar Ignacio Mendoza Cardozo for the project "*Application of an agent-based epidemiological model to evaluate the influence of risk factors on the dynamics and outcomes of the SARS-CoV-2 epidemic*" 2021

Adviser of a master student in the master's project ""

RESEARCH EXPERIENCE

Research in "Evolutionary dynamics of tag-based altruism considering the effect of inbreeding depression". Project degree, 2017-2018. University of Antioquia.

Research in ""Study and modeling of the dynamic properties of minimum systems of transcriptional regulation in animal development". Master's degree (in course), 2019. University of Antioquia.

Researcher in the project: “*Conceptualization, design and presentation of epidemiological models based on agents to predict the dynamics of infection by SARS-CoV-2 in the city and the environments that characterize it*” CODI808. Sponsored by University of Antioquia. 23/07/2020 - 1/08/2021.

Researcher in the project: “*Design and implementation of an advanced open access epidemiological modeling platform*” M801PR15F03. Sponsored by MINCIENCIAS Colombia. 03/09/2020 - 03/06/2021

PRESENTATIONS IN NATIONAL AND INTERNATIONAL EVENTS

The poster “Cooperation and Mating Pattern” in the “Hands-On Research in Complex Systems”, *The Abdus Salam International Centre for Theoretical Physics (ICTP)*. From July 22nd to August 2nd 2019, Trieste, Italia.

The short talk “camBio: Board game to teach the four evolutionary forces of modern synthesis ” in the course “Digital tools for teaching and research in evolution (Avida-Ed Digital Evolution for Education)”, Latin American Center for Interdisciplinary Formation (CELFI), *Universidad de Buenos Aires*. From May 13th to May 17th 2019, BA, Argentina.

The poster “camBio: Box tools for the evolution” in the *VI Colombian Symposium of Evolutionary Biology*. From April 17-19th 2017, Cali, Colombia.

Oral presentation “Evaluation of the infection by SARS-CoV-2 dynamics in Medellín using an analysis of cyclical strategies of opening and closing economic and social activities” in the *XVII Conferencia Internacional AMNET Virtual: COVID-19 Aprendizajes en Latinoamérica: Implicaciones para la salud y vigilancia*. From September 23th to 25th, Online event.

Oral presentation in *Reflections COVID-19 - Epidemiological intelligence and modeling for the study of the COVID-19 pandemic*, carried out by the School of Microbiology with the support of the National School of Public Health, Héctor Abad Gómez, of the University of Antioquia, on October 30th, 2020.

HONORS AND AWARDS

Special Mention for the project realized in the Biology Bachelor’s degree. Project’s title: “Evolutionary dynamics of tag-based altruism considering the effect of inbreeding depression”. University of Antioquia, 2018.

Academic fellowship for Master in Biology, University of Antioquia, 2019-2020.

Partial grant for summer school in the International Center for Theoretical Physics (ICTP). “Hands-On Research in Complex Systems”. From July 22nd to August 2nd 2019, Trieste, Italia.

Total grant for workshop in Latin American Center for Interdisciplinary Formation (CELF). “Digital tools for teaching and research in evolution (Avida-Ed Digital Evolution for Education)”. From May 13th to May 17th 2019, BA, Argentina.

UNIVERSITY SERVICE

2014-2015 University of Antioquia, Monitor by the system of academic stimuli (SEA). Course of “Taxonomy and ecology of phytoplankton of inland water”.

2014-2015 University of Antioquia and Environmental Academic Corporation. Assistant to the project "Determination of the ecological quality of the Rio Negro and its tributaries based on the macroinvertebrate community aquatic, periphery and diatoms ”.

ACADEMIC MEMBERSHIP

Group of fundamentals and teaching of physics and dynamic systems (Grupo de Fundamentos y Enseñanza de la Física y los Sistemas Dinámicos).

Colombian Network of Evolutionary Biology (Red Colombiana de Biología Evolutiva- ColEvol).

LANGUAGES

Spanish (Native language)
English

REFERENCES

Boris Anghelo Rodriguez Rey
boris.rodriguez@udea.edu.co
(+57) 318 349 57 93
Associate Teacher
Institute of Physics
University of Antioquia

Gloria Machado Rodriguez

gloria.machado@udea.edu.co

(+ 57) 316 620 70 96

Associate Teacher

Institute of Biology

University of Antioquia