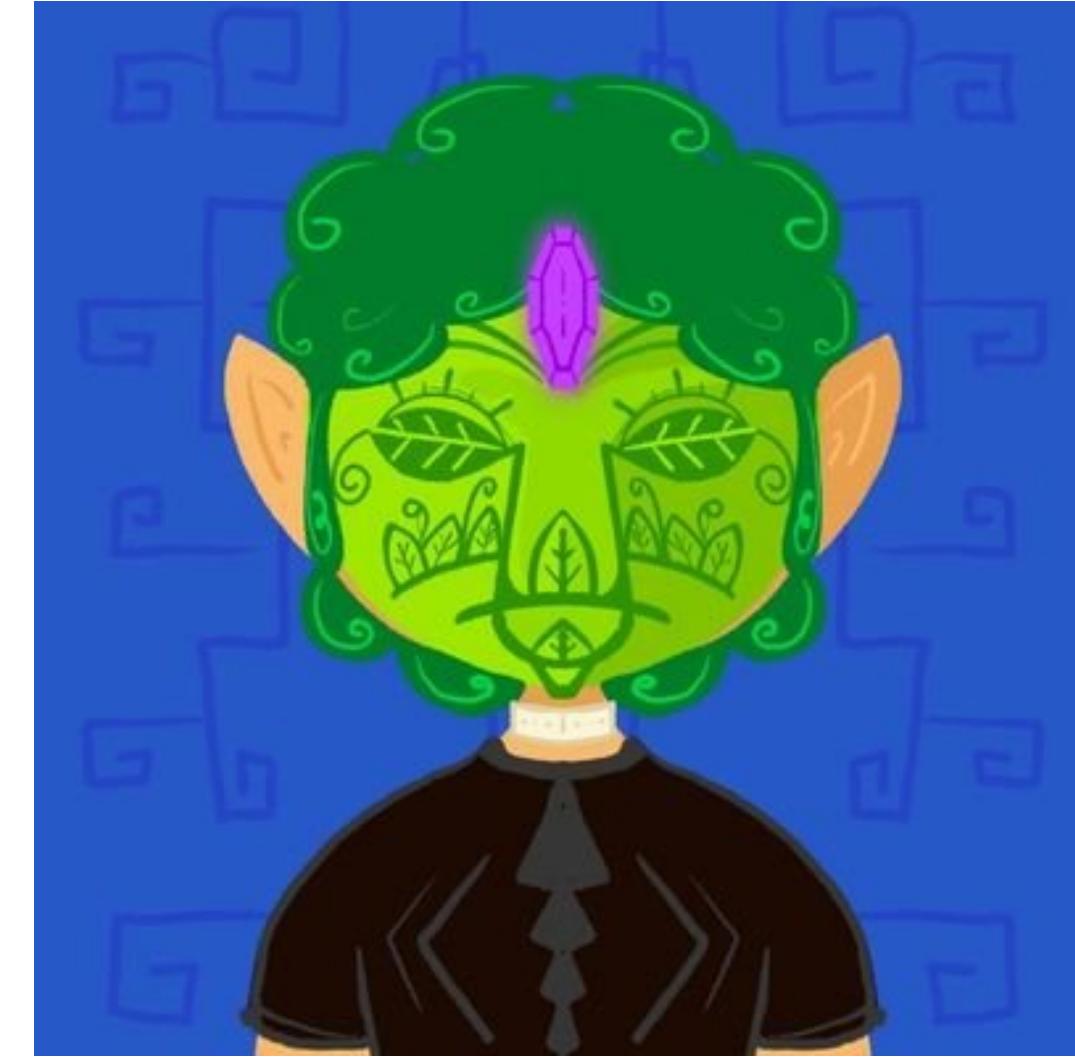




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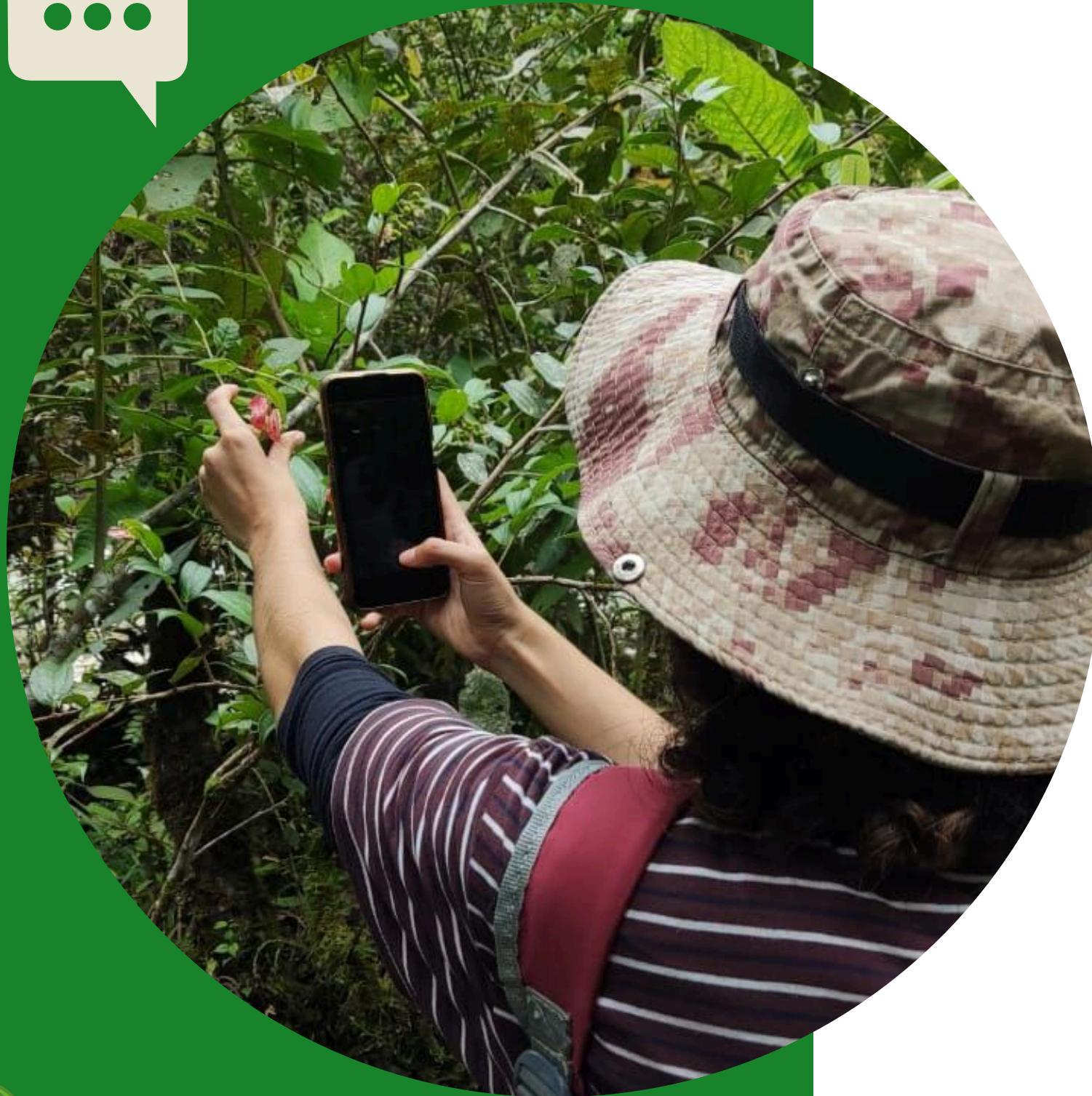
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Nación Bankless
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lausof

August 2024

ABOUT ME

This project aims to support and share the beginning and development of the professional career of a last year biology student in Neiva, Colombia. My focus is on biological data analysis, the molecular study of fish and their pathogens, and the divulgation of science through Web3. The goal is to contribute to making science more accessible and exploring future applications of blockchain technology in scientific research along the way.



PROBLEMS

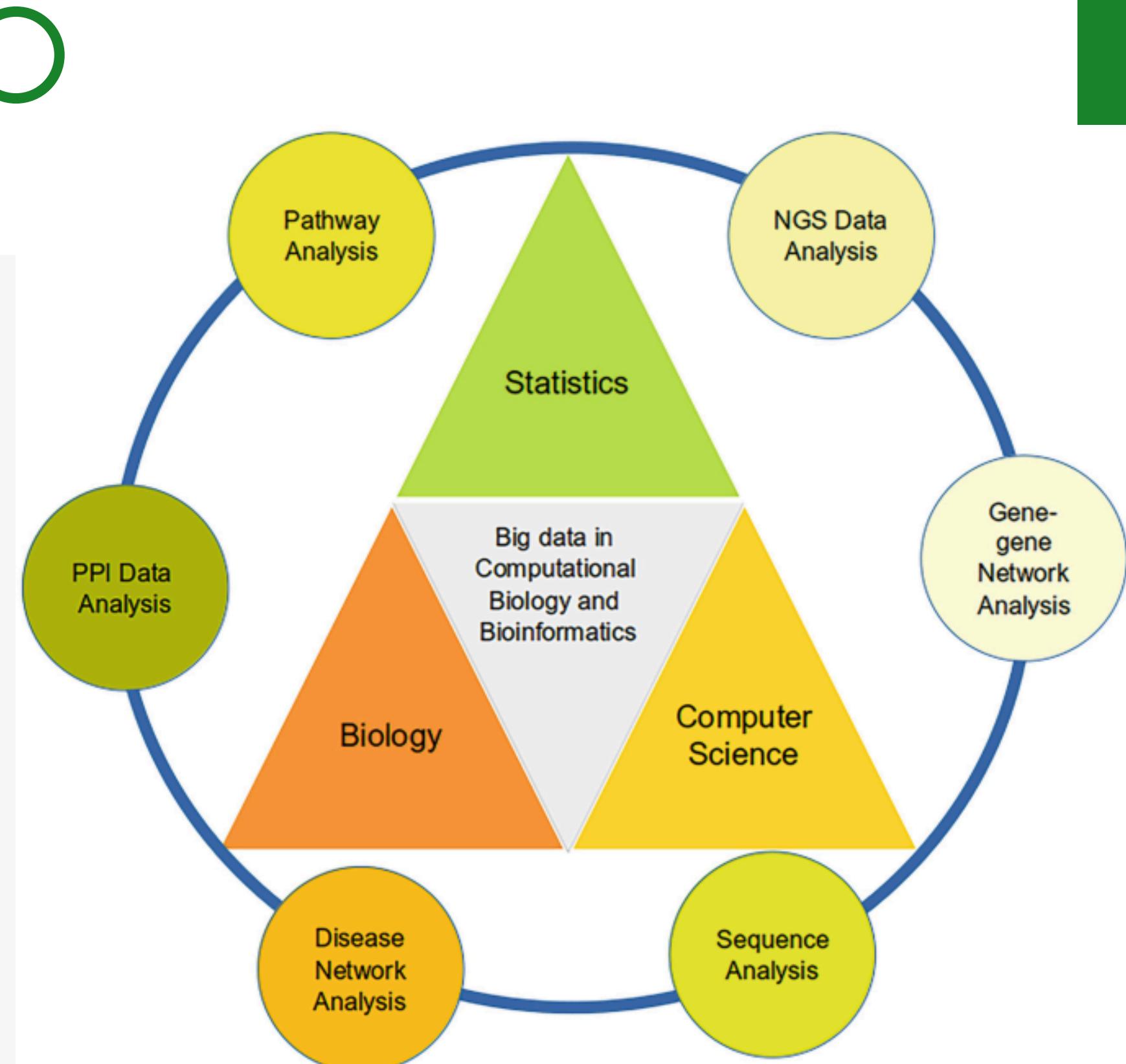
THAT I AM FACING WITH SCIENCE

01

Biological data

The analysis of biological data faces several challenges due to the exponential increase in data volume and complexity. Effective interpretation requires advanced models and methods, standardization, computational infrastructure, and multidisciplinary approaches to address these challenges and fully leverage the potential of biological data.

Read more here: [Big_Biological_Data:_Challenges_and_Opportunities](#)





PROBLEMS

THAT I AM FACING WITH SCIENCE

02 Fish Health Crisis

The aquaculture industry is facing a severe health crisis due to high mortality rates among aquatic species. This crisis is driven by water pollution and poor management practices, exacerbated by a new strain of Streptococcus bacteria. The contamination and mismanagement of water resources have led to widespread disease outbreaks, significantly impacting fish health and survival rates.

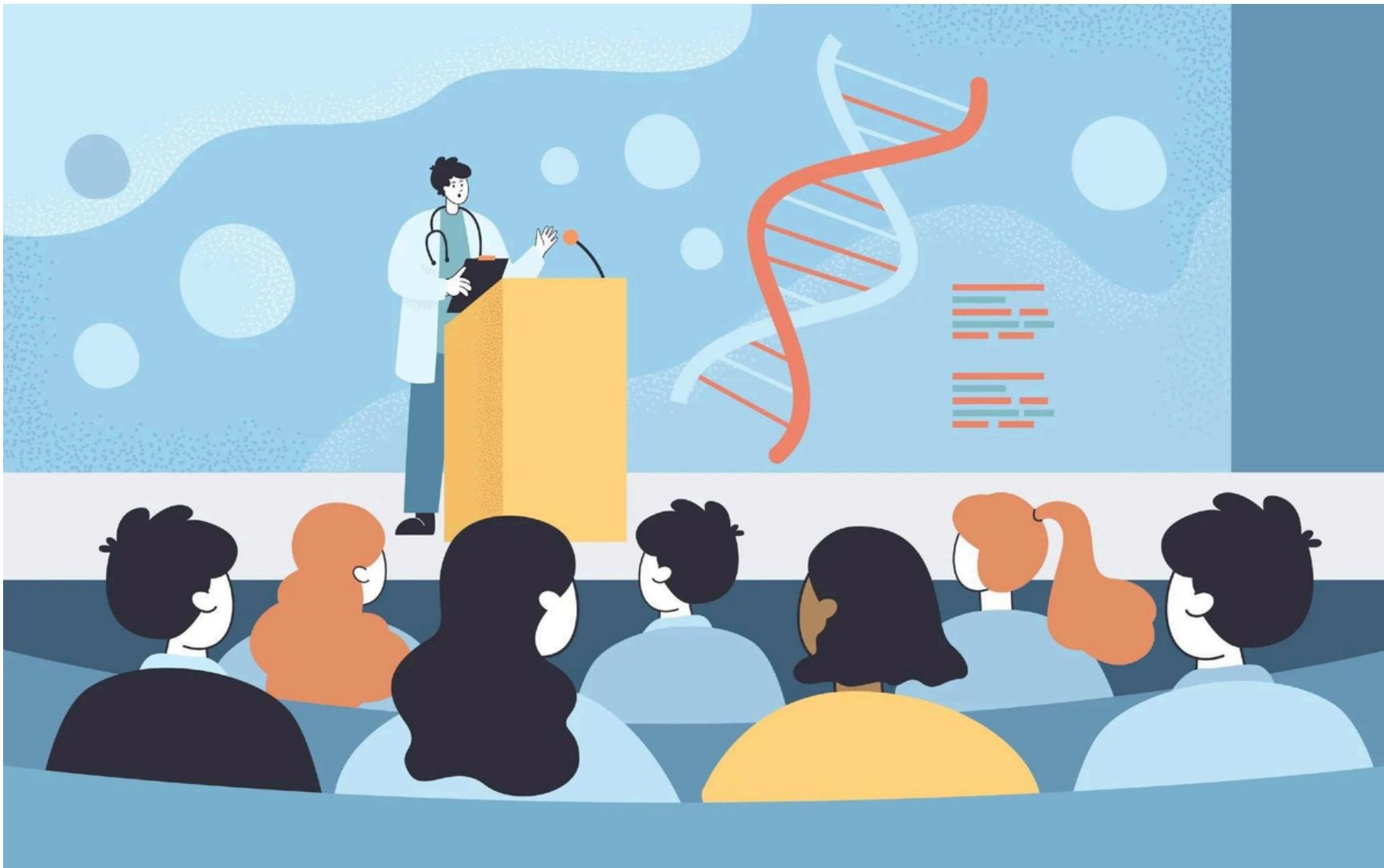
Read more here: [Emergencia Sanitaria por presencia de bacteria que afecta peces de cultivo en Atlántico, Huila, Tolima y Magdalena](#)

PROBLEMS

THAT I AM FACING WITH SCIENCE

03 Divulgation of science

Closed science faces significant issues, such as limited impact and restricted access, reducing its applicability and fostering misinformation. Lack of transparency can create public distrust and misunderstandings. Additionally, it hinders interdisciplinary collaboration and exacerbates information access inequalities. Scientific outreach addresses these problems by making knowledge accessible and understandable, fostering cross-disciplinary collaboration, educating the public, and enhancing the social relevance of science.



Read more: [The Importance of Science Communication](#)

WHAT I AM DOING

AND WHAT I WANT TO REACH

01 Biological data

I am currently taking courses in biological data analysis with Python, where I am learning the programming techniques behind various data analysis processes. My goal is to master these skills to effectively manage and interpret biological data. Additionally, I aim to teach others and contribute to developing new analytical methods within the community. By acquiring these programming skills, I plan to enhance our ability to handle complex data sets and collaborate on innovative solutions that can advance research and applications in the field.



WHAT I AM DOING

AND WHAT I WANT TO REACH



02

Fish Health Crisis

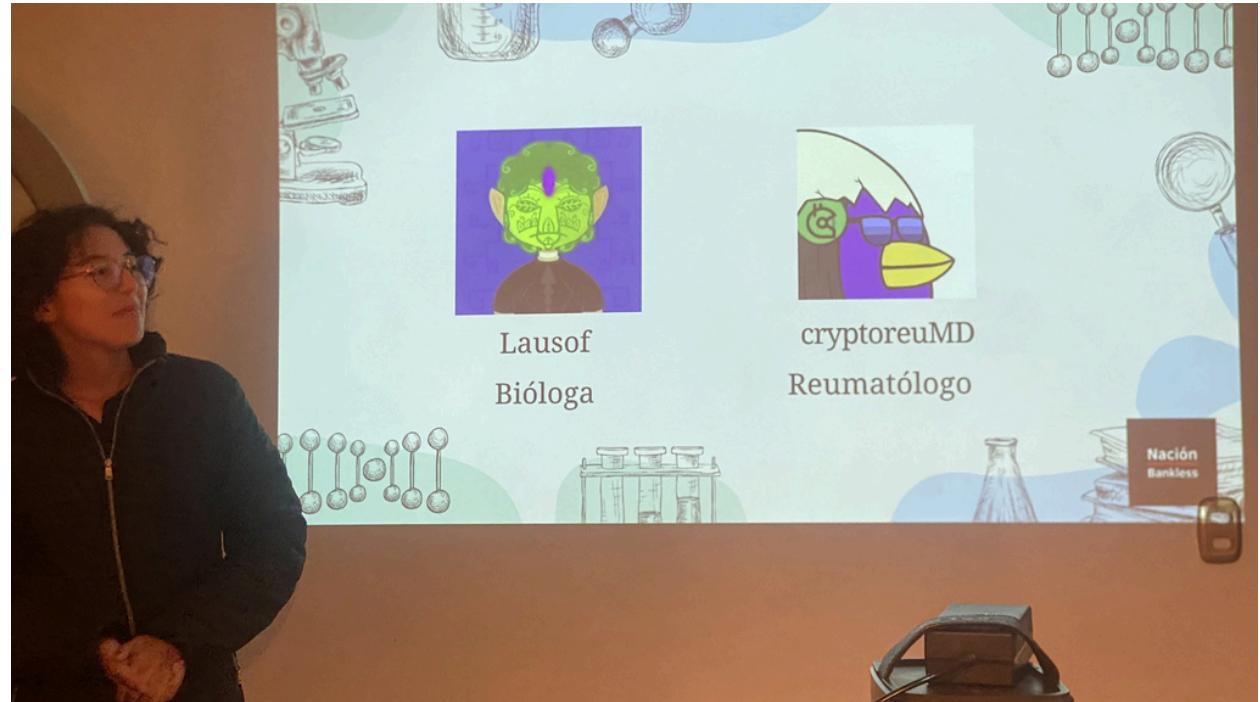
I am currently taking courses in biological data analysis and participating in a research group focused on studying fish to identify their pathogens. I am also involved in molecular and microbiological practices, assisting other students with their thesis projects and reviewing literature to propose a study for my own thesis. Additionally, I am providing support at a fish farming facility that operates with limited technology. My aim is to contribute to solving ongoing health issues in aquaculture. By mastering these techniques and collaborating on research, I hope to advance our understanding of fish pathogens and develop effective solutions for the industry.

GRANTS

The grants I have received have been instrumental in supporting my academic journey. To date, I have utilized these funds for coursework, study materials, and practical training. These resources have significantly contributed to my educational development. Looking ahead, I plan to continue leveraging these grants to enhance my research projects and academic pursuits. The financial support has not only facilitated my current studies but will also be crucial for my future graduate research endeavors, ensuring that I can contribute meaningfully to my field of study.



GRANTS



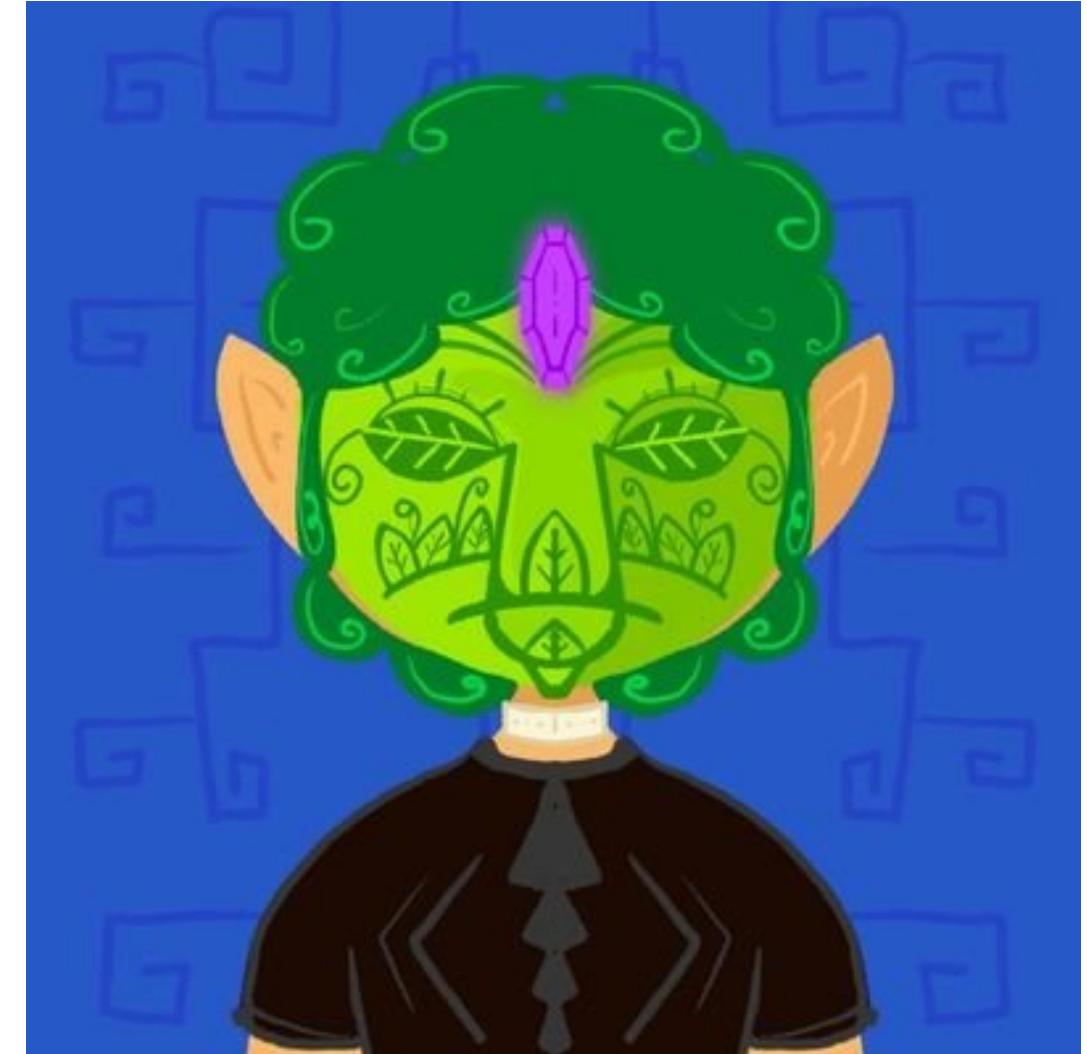
A screenshot of the Nación Bankless website. The header features the 'Nación Bankless' logo and a 'Subscribe' button. Below the header, there are three article cards: 1. 'Enfermedad de Parkinson' (August 5, 2024) with a photo of an elderly man at a desk. 2. '¿Histiocitosis? ¿Con qué se come?' (July 27, 2024) with a colorful microscopic image of cells. 3. 'Conservación de Terrenos: Un futuro Sostenible' (July 18, 2024) with a vibrant image of a coral reef. Each article card includes the date, title, a small image, and hashtags '#octant' and '#ciencia sinérgica'.

I have also used these funds to deliver talks on science and divulgation and to enhance my writing skills. These grants have enabled me to publish science outreach articles in collaboration with Nation Bankless, furthering my commitment to public science education. Moving forward, these resources will continue to support my research and educational endeavors, ensuring that I can effectively contribute to both academic and public understanding of scientific topics.



THANKS

● FOR YOUR ATTENTION



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August 2024