

# DANIELLE NOGUEIRA LOPES

Environmental Sciences | Geospatial studies | Forest Engineer

+8108094201993 @ dannoglopes@hotmail.com

<https://www.linkedin.com/in/dannoglopes/>

Greater Tokyo Area



## SUMMARY

Environmental geospatial studies professional with over 5 years of experience in environmental research and geospatial data analysis, expert in impact assessment and forestry management. My key achievements include successfully collecting and analyzing crucial ocean and forestry data to estimate the impact of climate change on fisheries and oceans, and developing a research project on sustainable forest management in the Brazilian Amazon, which involved detailed Land Use and Land Cover Change (LULCC) analysis of forested areas, social surveys to identify drivers of deforestation, and future simulations of native forest deforestation. Seeking a position where I can bring my environmental research and geospatial data analysis skills to support scientific excellence and provide actionable insights.

## EDUCATION

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|--|-------------------|
| Doctor of Philosophy (Global Agricultural Sciences)<br><a href="#">The University of Tokyo (Japan)</a>         | 04/2022 – 09/2025 |
| Master of Sciences (Global Agricultural Sciences)<br><a href="#">The University of Tokyo (Japan)</a>           | 04/2020 – 03/2022 |
| Bachelor Sandwich (Life and Agriculture Sciences)<br><a href="#">University College Dublin – UCD (Ireland)</a> | 04/2014 – 03/2015 |
| Bachelor in Forest Engineering<br><a href="#">Federal University of Amazonas – UFAM (Brazil)</a>               | 02/2011 – 01/2018 |

## SKILLS

- Extensive experience with GIS software (ArcGIS pro, QGIS, ENVI) and Google Earth Engine
- Advanced skills in data analysis and interpretation
- Experience applying machine learning techniques to geospatial data
- Strong background in land use change analysis and environmental impact in tropical ecosystems
- Experience handling Python and R for data analysis and processing
- Excellent scientific writing and presentation skills
- Experience in data visualization
- Work effectively with colleagues from various backgrounds and disciplines
- Communicate complex information to diverse audiences, including non-technical stakeholders

## EXPERIENCE

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|--|-----------------------------------|
| <b>Doctoral Candidate</b><br><a href="#">Laboratory of Global Forest Environmental Studies (The University of Tokyo)</a>   | 04/2022 – Present<br>Tokyo, Japan |
| <ul style="list-style-type: none"><li>• Leading an investigation on the causes of deforestation and forest degradation within 2 different locations in the Brazilian Amazon and their respective Conservation Units, using LULC change detection, resulting in a paper published in Journal and poster presentation in conference.</li></ul> |                                   |

- Organized a study conducting prediction of future deforestation using deep-learning simulations, coupled with social survey with local key-informants and stakeholders regarding drivers of deforestation and main policy instruments for forest conservation.

#### **Research Assistant**

05/2022 – 06/2024

Laboratory of Global Fisheries Sciences (The University of Tokyo)

Tokyo, Japan

- Collected various ocean environmental data, including sea surface temperature, sea surface salinity, chlorophyll-a concentration and ocean acidification, for use in methods for estimating the impact of climate change on fisheries and oceans
- Analysed over 20 years of data of micro landings and micro fishery census provided by the Japanese government.
- Crafted reports that guaranteed funding awards for the project for 2 years.

#### **Masters Student**

04/2020 – 03/2022

Laboratory of Global Forest Environmental Studies (The University of Tokyo)

Tokyo, Japan

- Developed research focused on detecting the expansion of urbanization over forested areas and protected forests in the urban areas of Manaus City, Amazonas, Brazil, within 30 years, using remote sensing.

#### **Admin Intern**

08/2017 – 12/2017

Support Management for Non-Timber Forest Production (Institute for Sustainable Agricultural and Forestry Development of the State of Amazonas – IDAM)

Manaus, Brazil

- Worked on administrative and technical assistance for the production chain of non-timber forest products and by-products, and organised small-scale producer's information database.
- Worked at the Department of Technical Assistance and Forestry Extension (DATEF).

#### **Junior Researcher**

08/2017 – 12/2017

Forest Management Laboratory (Federal University of Amazonas – UFAM)

Manaus, Brazil

- Led a research project on the role of the sample forest inventory in small-scale sustainable forest management in the state of Amazonas.
- Supported various forest inventory and forest management projects at the Forest Management Laboratory (LEF).

#### **Commercial and Marketing Team Member**

05/2017 – 11/2017

Commercial and Market Department (Forestry Consultancy Company – EMCOF)

Manaus, Brazil

- Worked on social media engagement, posting about current activities and reviews from customers.
- Supported the Sales director in the development of engagement with customers.
- Managed activities to be developed by the forest inventory team.

#### **Intern Research Assistant**

06/2015 – 08/2015

Forestry Management Laboratory (University College Dublin – UCD)

Dublin, Ireland

- Contributed to research on forest carbon sequestration and storage in Ballinastoe forest for a Master research and peer-review paper publication.
- Worked as a web editor for the Irish Forestry Journal, managing a project to develop a back issue archiving system for old published scientific papers, uploading more than hundreds of articles.

## **LANGUAGES**

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- Portuguese - Native
- English – Fluent (Including Academic)
- Spanish – Beginner

## PEER-REVIEWED JOURNAL ARTICLES

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Lopes, D.N.; Tsuyuki, S. Deforestation and Forest Degradation Detection in the Brazilian Amazon: A Comparative Analysis of Two Areas and Their Conservation Units. *Appl. Sci.* **2024**, *14*, 10504.

<https://doi.org/10.3390/app142210504>

## GRANTS, SCHOLARSHIPS AND FELLOWSHIPS

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- **MEXT Scholarship (2019-2025)**

Issued by Japan's Ministry of Education, Culture, Sports, Science, and Technology (MEXT)

- **Sciences without Borders – SwB (2014-2015)**

Issued by Brazil's Ministry of Education (MEC)

- **Tutorship Education Program – PET (2012 – 2014)**

Issued by the Federal University of Amazonas (UFAM)

## PRESENTATIONS IN CONFERENCE

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- 61st Annual Meeting of the Association for Tropical Biology and Conservation – Oaxaca, Mexico (June 28<sup>th</sup>, 2025)
- 135th Annual Meeting of the Japanese Forest Society - Tokyo, Japan (Mar 10<sup>th</sup>, 2024)
- 3rd CENBAM and PPBio Western Amazon Symposium – Manaus, Brazil (Nov 17<sup>th</sup>, 2015)
- Annual Meeting of Northern Tutorship Education Program Groups - Belém, Brazil (May 15<sup>th</sup>, 2014)
- 64th National Botanical Congress – Belo Horizonte, Brazil (Nov 15<sup>th</sup>, 2013)

## CERTIFICATION

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- Energy Economics, Environment, and Policy – Issued by Asian Development Bank Institute (Jan 2025)
- Introduction to Carbon Market – Issued by Aliança Brasil Nature-based Solutions (Sep 2024)
- Building Climate Risk Assessments from Local Vulnerability and Exposure – Issued by NASA (Dec 2023)
- Fundamentals of Machine Learning for Earth Science – Issued by NASA (Jul 2023)
- Migration and Climate Change – Issued by FAO (Jan 2023)

## MEMBERSHIPS

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- 日本森林学会日本森林学会 - Member (Oct 2023 – Present)
- 東大林学会 - Member (Apr 2020 – Present)

## REFERENCES

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1. **Satoshi TSUYUKI**

Professor Emmeritus  
Graduate School of Agricultural and Life  
Sciences, University of Tokyo  
1-1-1, Yayoi, Bunkyo, Tokyo 113-8657,  
Japan  
+81-03-5841-7509  
[stsuyuki@g.ecc.u-tokyo.ac.jp](mailto:stsuyuki@g.ecc.u-tokyo.ac.jp)

2. **Yutaro SAKAI**

Associate Professor  
Laboratory of Global Fisheries Science  
Graduate School of Agricultural and Life  
Sciences, University of Tokyo  
1-1-1, Yayoi, Bunkyo, Tokyo 113-8657,  
Japan  
[a-sakai@g.ecc.u-tokyo.ac.jp](mailto:a-sakai@g.ecc.u-tokyo.ac.jp)