

# Luan Carlos de S. M. Ozelim

AI CONSULTANT · STATISTICAL ANALYSIS EXPERT · DEEP LEARNING ENTHUSIAST · CIVIL ENGINEER · D.Sc.

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## Summary

Has a B.Sc. degree in Civil Engineering and a Doctoral Degree in Geotechnical Engineering (GE) from the University of Brasília (UnB). Besides, has been granted three post-doctoral fellowships to study GE at such university, where he currently holds a Full Research Collaborator position and carries out a number of GE research activities. He conducted postdoctoral research at the Aeronautics Institute of Technology (ITA) in São José dos Campos, Brazil, where he now holds a position as a Collaborating Researcher. His areas of interest encompass Statistical Analysis, Mathematical Statistics, Deep Learning and Data Science. Has published papers addressing issues on Civil Engineering (Hydraulics, Geotechnical and Geo-environmental Engineering), Pure and Applied Mathematics and Statistics, Network Engineering, Theoretical Computer Science and Biomedicine. Mostly, his studies are related to the application of mathematical, statistical and computational tools to the modeling of experimental data and physical phenomena, specially by using Statistical and Machine Learning techniques. Recently, has been part of a R&D team working on the monitoring of Dams using acoustic measurements and Deep Learning techniques. Has been recently recognized by the Coordination for the Improvement of Higher Education Personnel (CAPES) as the youngest student to obtain a doctoral Degree in Brazil (22 years, 1 month and 6 days), among all the areas of study. Has also worked as a Civil Engineer at the Federal Senate of Brazil since 2014, with more than 9 years of experience with the design and the management of Civil Engineering works. Since 2024, has been an AI Consultant at Oxford Immune Algorithmics.

## Education

### University of Brasília

POSTDOCTORAL FELLOWSHIP IN GEOTECHNICAL ENGINEERING

*Brasília, Brazil*

*Jun. 2022 - Nov. 2023*

- Got a Senior Scholarship from the National Council for Scientific and Technological Development (CNPq) to carry out his studies.

### Aeronautics Institute of Technology

POSTDOCTORAL FELLOWSHIP IN AERONAUTICAL INFRASTRUCTURE ENGINEERING

*São José dos Campos, Brazil*

*Jul. 2022 - Jun. 2023*

### University of Brasília

POSTDOCTORAL FELLOWSHIP IN GEOTECHNICAL ENGINEERING

*Brasília, Brazil*

*Jul. 2018 - Jul. 2019*

- Got a Scholarship from the National Council for Scientific and Technological Development (CNPq) to carry out his studies.

### University of Brasília

POSTDOCTORAL FELLOWSHIP IN GEOTECHNICAL ENGINEERING

*Brasília, Brazil*

*Nov. 2016 - Oct. 2017*

- Got a Scholarship from the National Council for Scientific and Technological Development (CNPq) to carry out his studies.

### University of Brasília

D.Sc. IN GEOTECHNICAL ENGINEERING

*Brasília, Brazil*

*Aug. 2012 - July. 2014*

- Got a Scholarship from the Coordination for the Improvement of Higher Education Personnel (CAPES) to carry out his studies.
- Got a Grade Point Average (GPA) of 5.0/5.0

### University of Brasília

B.Sc. IN CIVIL ENGINEERING

*Brasília, Brazil*

*Aug. 2008 - July. 2012*

- Got several Scholarships from the Ministry of Education (MEC) National Council for Scientific and Technological Development (CNPq) and University of Brasília (UnB) during his undergraduate studies.
- Got a Grade Point Average (GPA) of 4.72/5.0

## Work Experience

### Oxford Immune Algorithmics

AI CONSULTANT

*Reading, UK*

*Feb. 2024 - today*

- Has been an AI Consultant directly working with the sole founder, previous CEO and current Chief Visionary Officer of Oxford Immune Algorithmics, Prof. Dr. Hector Zenil.

### Aeronautics Institute of Technology

RESEARCH COLLABORATOR

*São José dos Campos, Brazil*

*Jul. 2023 - Jun. 2026*

- Co-advised students on their Master thesis/Doctoral dissertations in Geotechnical Engineering
- Research topics include: numerical, statistical and mathematical modelling of experimental data; machine learning and big data; deep learning; constitutive modelling; inverse modelling

## University of Brasília

FULL RESEARCH COLLABORATOR

Brasília, Brazil

May. 2020 - May. 2025

- Co-advised one student on his Master thesis in Geotechnical Engineering
- Co-advised two students on their Doctoral dissertations in Geotechnical Engineering
- Research topics include: numerical, statistical and mathematical modelling of experimental data; machine learning and big data; deep learning; constitutive modelling

## University of Brasília

JUNIOR RESEARCH COLLABORATOR

Brasília, Brazil

Nov. 2015 - Dec. 2019

- Co-advised one student on his Master thesis in Geotechnical Engineering
- Co-advised one student on his Bachelor thesis in Geotechnical Engineering
- Research topics included: numerical, statistical and mathematical modelling of experimental data; 3d printing, machine learning and big data

## University Center of Brasília (UniCEUB)

ASSOCIATE PROFESSOR

Brasília, Brazil

Ago. 2014 - Dec. 2015

- Taught Calculus 1, Calculus 3, Linear Algebra, Physics 1 and Soil Mechanics 1
- Co-advised one student on his Bachelor thesis in Geotechnical Engineering

## Federal Senate of Brazil

LEGISLATIVE ANALYST - CIVIL ENGINEERING

Brasília, Brazil

May. 2014 - Present

- Worked as a Project Manager for several engineering/architectural designs
- Worked as a Maintenance Engineer, focusing on Civil Engineering issues
- Worked as a Civil Engineering designer. The designs included urban drainage, slope stability and retaining walls design, pavement design, structural design, among others
- From July 2021 until today is the Coordinator of the Coordination of Infrastructure Designs and Works
- From April 2020 until July 2021 was an Assistant Manager at the Coordination of Infrastructure Designs and Works
- From September 2019 until April 2020 was the Chief of the Civil Maintenance Unit
- From March 2019 until September 2019 was the Director of the Infrastructure Department. This area is responsible for all the Engineering and Architecture designs and works of the Federal Senate of Brazil
- From June 2017 until March 2019 was the General Coordinator of the Infrastructure Department, which is equivalent to a Vice-Director position. This area is responsible for all the Engineering and Architecture designs and works of the Federal Senate of Brazil
- From October 2015 until June 2017 was the Coordinator of Maintenance, which was responsible for the Maintenance of all the Built Complex of the Senate with respect to all the Engineering subjects (Civil, Electrical and Mechanical)
- From June 2014 until October 2015 was the Chief of the Civil Maintenance Unit

## Reviewing & Publishing

### Editorial Roles

ACADEMIC EDITOR

Journals

2023 - Present

- Is part of the editorial board of PLoS One

### Academic Reviewing

REVIEWER

Journals & Databases

2011 - Present

- Is part of the board of reviewers of several International journals, namely: PLoS One, the International Journal of Geomechanics (ASCE), Entropy, Patterns, GEOSYNTHETICS INTERNATIONAL, Structural Control and Health Monitoring, Symmetry, CHEMBIOENG REVIEWS, Mathematics, Sustainability, Frontiers Of Structural And Civil Engineering, Advanced Studies in Contemporary Mathematics (Kyungshang), Alexandria Engineering Journal, REM - INTERNATIONAL ENGINEERING JOURNAL, Scientia Iranica, European Journal of Soil Science, Journal of Zhejiang University SCIENCE A, Flow Measurement and Instrumentation, Engenharia Sanitária e Ambiental, Energies, Axioms, AIMS Mathematics
- Is a reviewer of scientific documents for the Zentralblatt MATH and Mathematical Reviews (AMS) databases

### Academic Publications

AUTHOR & CO-AUTHOR

Journals & Proceedings

2010 - Present

- Has published 57 academic papers in high impact journals. These are presented below.
- Also published 4 book chapters and 20 peer-reviewed full papers on the proceedings of national and international conferences. For simplicity, these publications will be omitted.

## References

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