

Oscar Rincón

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WORK EXPERIENCE

Publishing house of the Universidad de Antioquia

Freelancer as LaTeX book designer

Skills: LaTeX · Git · Adobe Illustrator

Description: Implement the characteristics required by the publisher's collection for scientific books.

Oct. 2019 – Present

Medellín, Colombia

Universidad de Antioquia

Occasional Professor

Skills: Excel · Tableau · PowerBI

- Lecturer in courses of Physics for the Biology Department.
- Project advisor for the Master's Degree in Mathematical Teaching

Oct. 2021 – Present

Medellín, Colombia

Universidad de Antioquia

Research Assistant

- Mathematical modeling and data analysis applied in physiology using Python, R, MatLab and Excel

Skills: Python · MatLab · R

Oct. 2017 –Present

Medellín, Colombia

EDUCATION

University of Antioquia

MSc Physics

- Summa cum laude in master's research work
- Honorable mention in Shizu and Yu Takeuchi awards

Mar. 2021

Medellín, Colombia

EAFIT University

BSc Physics Engineering

Mar. 2015

Medellín, Colombia

PUBLICATIONS

- Milán, A. F., Rincón, O. A., Arango, L. B., Reutovich, A. A., Smith, G. L., Giraldo, M. A., Bou-Abdallah, F., and Calderón, J. C. (2021). Calibration of mammalian skeletal muscle Ca^{2+} transients recorded with the fast C^{2+} dye Mag-Fluo-4. *Biochimica et Biophysica Acta (BBA) - General Subjects*, 1865(9), 129939.
- Rincón, O. A., Milán, A. F., Calderón, J. C., and Giraldo, M. A. (2021). Comprehensive Simulation of Ca^{2+} Transients in the Continuum of Mouse Skeletal Muscle Fiber Types. *International Journal of Molecular Sciences*, 22(22), 12378.

CERTIFICATIONS

IBM DevOps and Software Engineering

Coursera, IBM

Skills: Agile · Scrum · CI/CD · Git · Docker

Oct. 2023

Online

Software Architecture for Big Data

Coursera, University of Colorado Boulder

Skills: Real-time Systems · Big Data · Microservices · Software Engineering Practices · Distributed Computing

Aug. 2023

Online

Google Data Analytics Professional Certificate

Coursera, Google Career Certificates

Skills: Data Visualization (DataViz) · Spreadsheets · Metadata · Data Ethics · R Programming · R Markdown ·

Jul. 2023

Online

RStudio · Tableau · Data Integrity · SQL

Le Wagon

Data Science

Mar. 2023

London, UK

10-week intensive course covering data analysis, machine learning, deep learning & data engineering

Skills: TensorFlow · BigQuery · SQL · Seaborn · Streamlit · Heroku · Scikit-Learn · Microsoft Visual Studio Code · Jupyter · Data Analysis · Statistics · Data Science

Project: Create synthesized medical reports so that data scientists can utilize the information to develop better visualizations and automatize processes from it. Then a classifier was implemented to evaluate the output and finally a proof of concept is performed by generating synthesized Endoscopic reports (see the project website).

MIT Schwarzman College of Computing

Great Learning - Data Science and Machine Learning: Making Data Driven Decisions

Nov. 2022

Online

12-week course covering network analytics, recommendation systems, graph neural networks & time series

Skills: Recommendation Systems · Networking & Graphical Models · Unstructured Data · Regression & Prediction · Classification & Hypothesis Testing · Predictive Analytics · Scikit-Learn

Projects:

- Application of different techniques to build recommendation systems such as Rank-based & Collaborative Filtering-based recommendation systems to recommend Movies to users (see the project notebook).
- Predict whether a passenger was satisfied or not considering his/her overall experience of traveling on the Shinkansen Bullet Train (see the project notebook).

Machine Learning Specialization

Coursera

Jan. 2023

Online

Skills: Recommender Systems · Artificial Neural Networks · Linear Regression · Logistic Regression · Decision Trees

SKILLS & INTERESTS

- **Languages:**
 - *Native speaker*
 - *English: B2*
- **Programming Languages:** Python, R, SQL
- **Software Tools:** MatLab, LaTeX, GitHub, Jupyter, Spyder, VScode, Docker, MLFlow, Google Cloud Platform, Dataiku, Pandas, Numpy, SciPy, SKLearn, Tensorflow, Keras
- **Interests:** football, read, travel

REFERENCES

- Prof. Marco Antonio Giraldo. PhD, *Director of master's research work and coordinator of the Biophysics Group from the University of Antioquia. Email: mantonio.giraldo@udea.edu.co*
- Prof. Mauricio Muñoz. PhD, *Advisor in internship project for the biophotonics group of the University of Groningen. Email: m.munoz.arias@rug.nl*