

# RODRIGO CORTEZ MADRIGAL

Data scientist and art enthusiast

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roicort.github.io

roicort

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## ABOUT ME

Graduate of "Technologies for Information in Science" from the Area of Engineering and Sciences of the UNAM. Interested in the sciences and the arts, but especially in their intersection.

## EXPERIENCE

Assist. Professor

**ENES-UNAM**

July 2019 – Ongoing

Morelia

- Assist. Professor "Algorithmic Composition", Music and Art Technologies, ENES UNAM Morelia
- Assist. Professor "Desition Theory", Technologies for Information in Science, ENES UNAM Morelia
- Assist. Professor "Microcontrollers", Music and Art Technologies, ENES UNAM Morelia
- Assist. Professor "Integrator Workshop II & III", Archives and Records Management, ENES UNAM Morelia
- Assist. Professor "ElectroBending", Music and Art Technologies, ENES UNAM Morelia
- Assist. Professor "Selected Data Science Topics", Technologies for Information in Science, ENES UNAM Morelia

Consultant

**SUR Institute**

Oct 2021 – Feb 2022

México City

- "Reference scenario modeling to determine the cost-benefit of implementing energy efficiency regulations for light vehicles in Colombia" - Instituto del Sur Urbano, ECLAC (United Nations) and EuroClima+ (European Union).

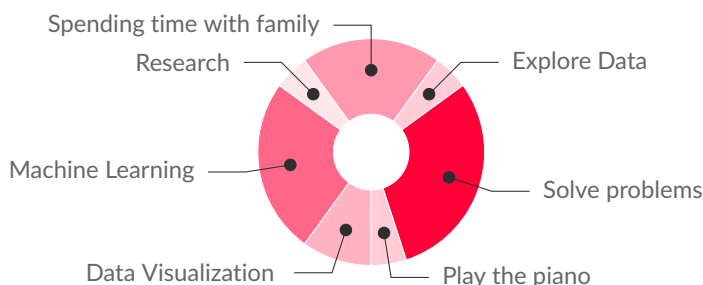
## EDUCATION

B.Sc. in Data Science (eq.)

**ENES-UNAM**

Sept 2015 – June 2019

## INTERESTS



## LIFE PHILOSOPHY

*"Improve, reinvent, make it better."*

## MOST PROUD OF



**Academic achievements**

Interdisciplinary education.



**Social responsibility**

Put people first.



**Member of the Math Olympiad Committee**

Improving educational proficiency through mathematics.

## STRENGTHS

Motivator & Leader

Public Speaker

Persuasive

Research

Academic Writing

Design

Programming

Data Visualization

## LANGUAGES

Spanish (Native)

French (B2)

English (TOEFL 590)

Chinesse (HSK1)

Russian (Learning)



## RESEARCH LINES

Artificial Intelligence

Data Mining

Graph Embedding

Single and Multi-target Optimization

Science outreach

Digital Humanities

Intersecion between art and science

## PUBLICATIONS

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### Journal Articles

- Duarte-García, M. A., Wilde, E., Cortez, R., & Sigal, J. R. (2020). The use of an interactive music system as an aid for exploring sound in music education in a rural area. *Revista Música*, 20(1), 357–380. doi:10.11606/rm.v20i1.170736

### Conference Proceedings

- Flores-Garrido, M., García-Velázquez, L., & Cortez-Madrigo, R. (2022). Clustering of Twitter Networks Based on Users' Structural Profile. (p. 10). Elsevier.

## REFEREES

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