

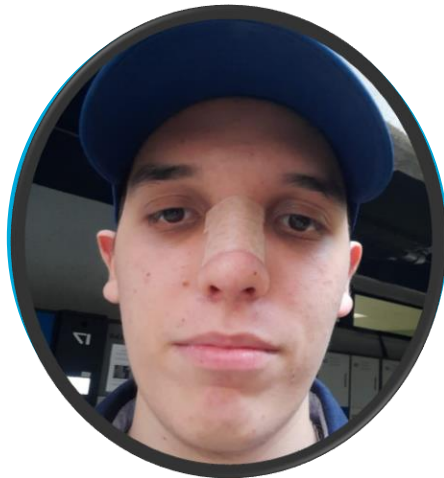


The fast greedy search.

Presentation of the team



**Maximiliano
Sanchez Lara**
PowerPoint,
code, leadership.



**Santiago Celis
Loaiza**
Research,
word, code.



Andrea Serna
Literature review



Mauricio Toro
Data preparation



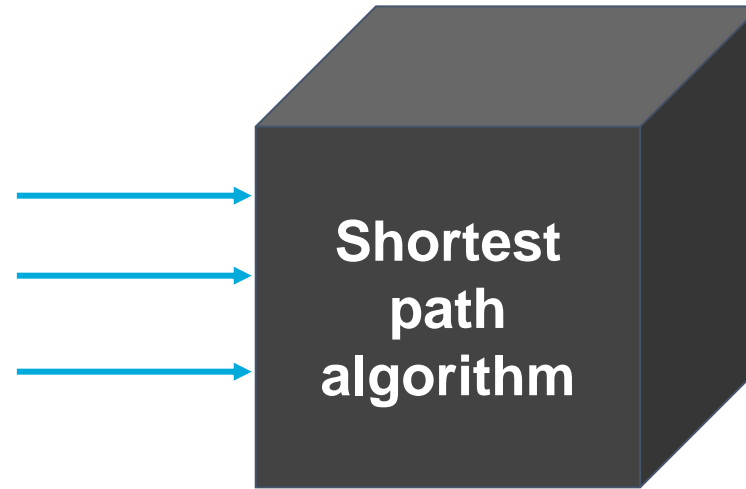
[GitHub - MaximilianoSanLa/ST0245-002-
MaxiSan: ST0245-002](https://github.com/MaximilianoSanLa/ST0245-002-MaxiSan)



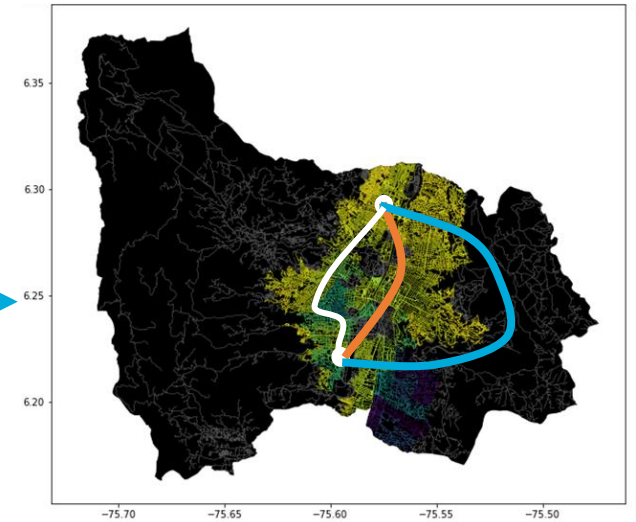
Problem Statement



**Streets
of Medellín,
Origin and
Destination**



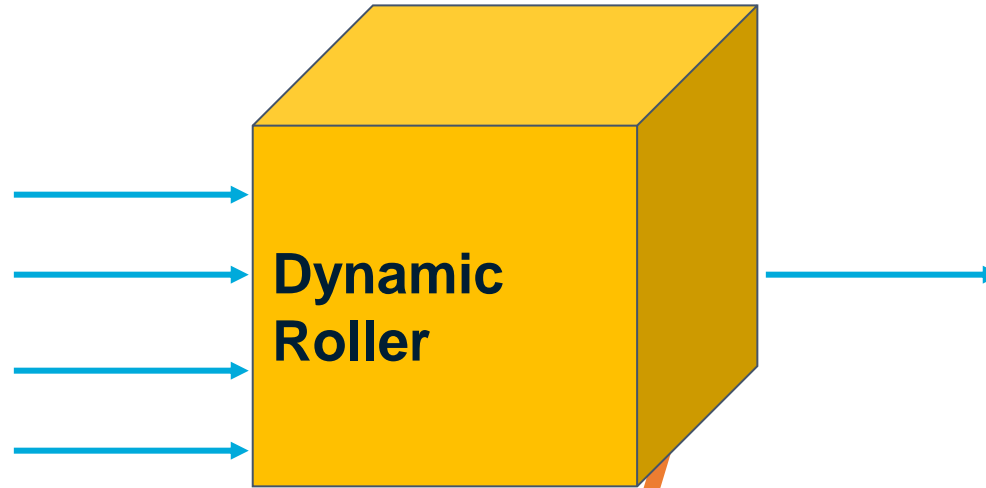
*It may not be necessary to
change anything on this slide*



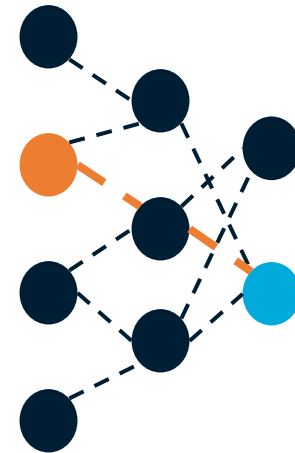
**Three paths that reduce
both the risk of harassment
and distance**



**Streets
of Medellín,
Origin and
Destination**



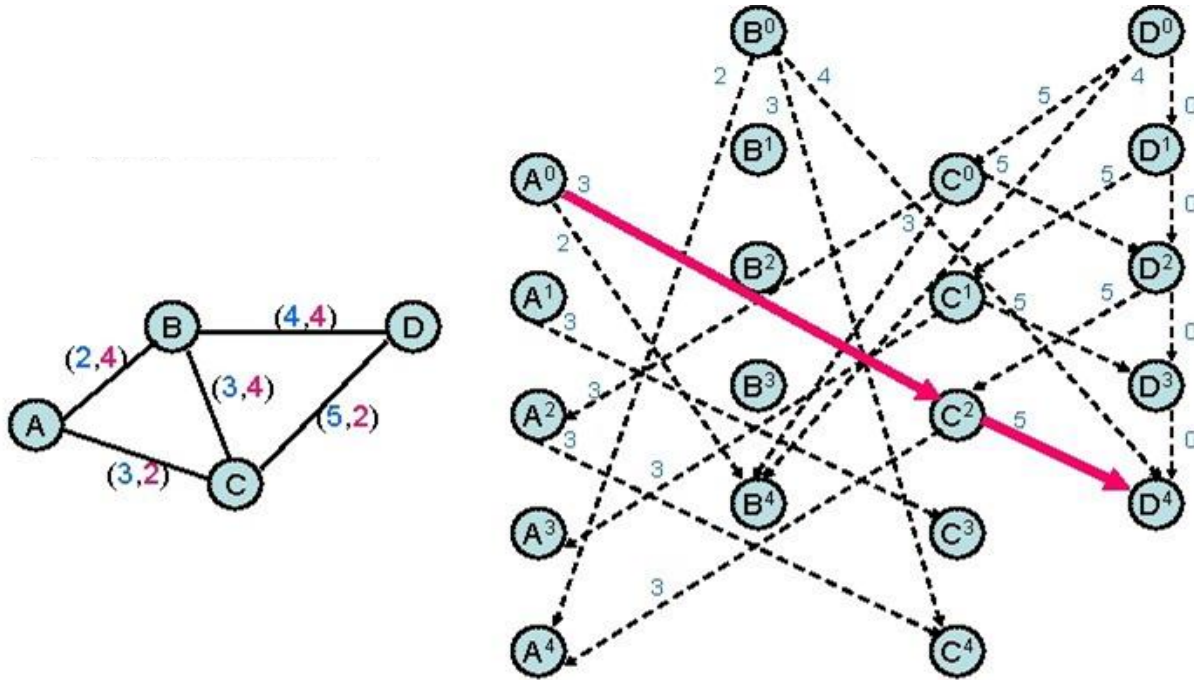
*Add the name of your
algorithm*



**A path that reduces
both distance and
harassment**

Explanation of the algorithm

Use these colors for graphics



Name of the algorithm for the path that reduces both harassment and distance.

(In this semester, it could be DFS, BFS, Dijkstra, A*... **please choose**).



Include a high-definition image related to the problem of sexual street harassment.

Explain the graphs in your own words

Complexity of the algorithm

Keep this title

Complete this slide
For the third installment



	Time complexity	Complexity of memory
Algorithm name	$O(V^2 * E * 2^V)$	$O(E! * V * E * E * 2^E)$
Algorithm name (if you have tried two)	$O(V * V * E * E * E)$	$O(E!)$

Create the table in Powerpoint. Do not copy pixelated screenshots of the white paper, please.

Do NOT use red on the slides.



Time and memory complexity of the algorithm name. V is...E is... (In this semester, it could be DFS, BFS, Dijkstra, A*). Please explain what V and E mean in this problem. **PLEASE, it is not helpful to put 'n'.**

Explain the tables in your own words

Include a high-definition image related to the problem of sexual street harassment.

Use superscripts to represent exponents. **Do NOT use the ^ symbol.**

The font size must be at least 22 points.

First path minimizing $d = ???$

Keep this title

Complete this slide
For the third installment



Do NOT use red on the slides.

Create the table in Powerpoint. Do not copy pixelated screenshots from the white paper, please.

Origin	Destination	Distance (meters)	Risk of harassment (between 0 and 1)
EAFIT University	National University	??	??

Distance and risk of harassment for the path that minimizes $d = ??$. Execution time of ?? seconds.

Explain the tables in your own words

The font size must be at least 22 points.

Second path minimizing $d = ???$

Keep this title

Complete this slide
For the third installment



Do NOT use red on the slides.

Create the table in Powerpoint. Do not copy pixelated screenshots of the white paper, please.

Origin	Destination	Distance (meters)	Risk of harassment (between 0 and 1)
EAFIT University	National University	??	??

Distance and risk of harassment for the path that minimizes $d = ??$. Execution time of ?? seconds.

Explain the tables in your own words

The font size must be at least 22 points.

Third path minimizing $d = ???$

Keep this title

Complete this slide
For the third installment



Do NOT use red on the slides.

Create the table in Powerpoint. Do not copy pixelated screenshots of the white paper, please.

Origin	Destination	Distance (meters)	Risk of harassment (between 0 and 1)
EAFIT University	National University	??	??

Distance and risk of harassment for the path that minimizes $d = ??$. Execution time of ?? seconds.

Explain the tables in your own words

The font size must be at least 22 points.

Visual comparison of the three paths

Keep this title

Complete this slide
For the third installment



Use a library to draw the map and plot the three roads between Eafit and Universidad Nacional. For example, use geopandas, pydeck or google maps.

Do NOT use red on the slides.

The font size must be at least 22 points.



Future work directions



Keep this title

Complete this slide
For the third installment



Do NOT use red on the
slides.

Probability

• • • • •
Other risk
estimates

Delete this
if you study
Informatics engineering

Optimization 1

• • • • •
Optimization
Bi target

Please tell us what you could do, in the following courses,
to improve this project.

Statistics 2

• • • • •
MV risk
estimates

M & S 4

• • • • •
Traffic
Estimation

The font size must be at least 22
points.

You can add, delete or
change some future
work addresses

Future work directions



Keep this title

Complete this slide
For the third installment



Do NOT use red on the slides.

Databases

Other
variables

Delete this
if you study
Mathematics
Engineering

Project 1

Web
application

Please tell us what you could do, in the following courses,
to improve this project.

Software
Engineering

Mobile
application

Project 2

Include
ML or VR

Please name the courses in which you could continue to
work on this project.

The font size must be at least 22
points.

You can add, delete or
change some future
work addresses

Report accepted in OSF.IO

Keep this title

Complete this slide
For the third installment



Do NOT use red on the slides.

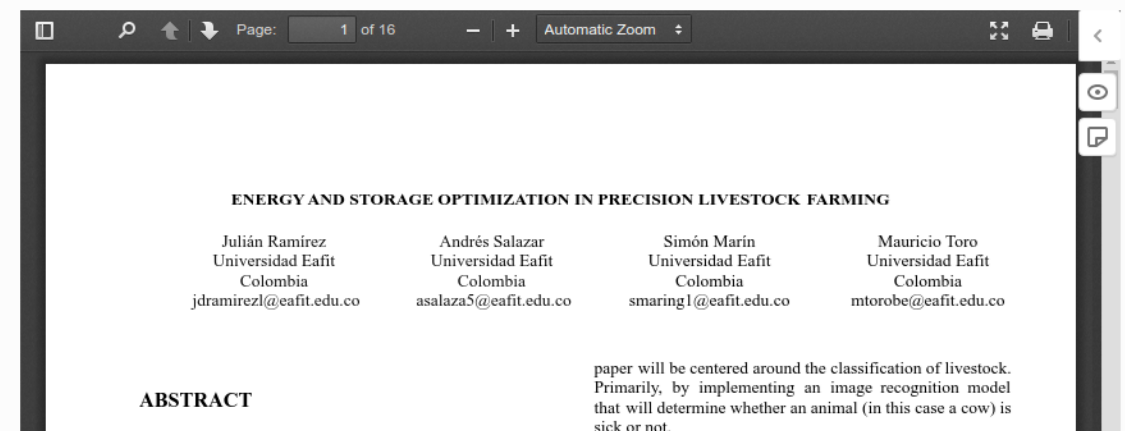
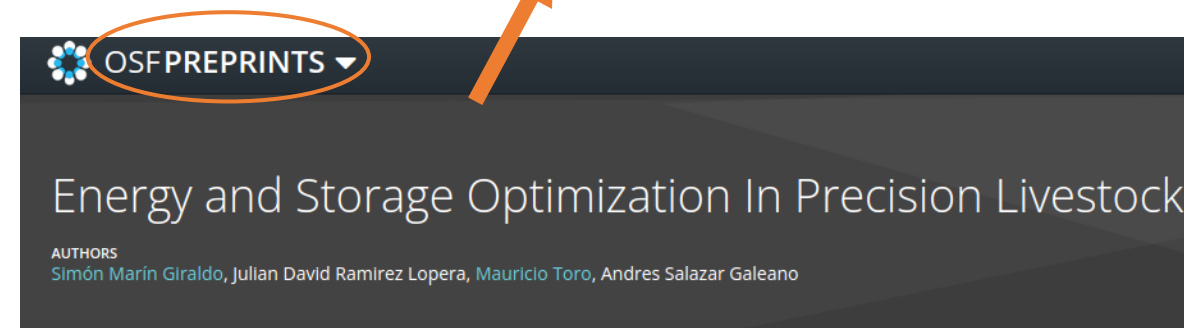
Delete this slide if your report was not submitted to OSF.

This is an example screenshot from a previous report

This is an example of a citation from a previous report

Include the report citation in OSF PREPRINTS and the link. No, not in OSF projects, it is in OSF Preprints.

Julián Ramírez, Andrés Salazar, Simón Marín, Mauricio Toro. Energy and Storage Optimization in Precision Livestock Farming. Technical Report, Universidad EAFIT, 2021.
<https://doi.org/10.31219/osf.io/du8yt>



Include a screenshot of your published report on osf.io and remove the circle

The font size must be at least 22 points.

Include monitors and teachers among the authors, please.



You can change this picture



*Complete this slide
For the third installment*

Do NOT use red on the slides.

*Don't forget your scholarship
acknowledgements (if you have one) For
others, for those who pay your tuition
fees*



THANK YOU!

With the support of

The first two authors were supported by the Sapiencia grant, financed by the municipality of Medellín. All authors are grateful to the Vice Rector's Office for Discovery and Creation, Universidad EAFIT, for their support in this research.

*The font size must be at least 22
points.*