

***NobleProg***

# Introduction to Graph Computing

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# About your trainer

- Pablo Maldonado, Ph.D.
- Trainer & Consultant, Analytics & Automation.
- Project experience in
  - Telco (CRM / marketing).
  - Ecommerce and digital marketing.
  - Analysis of sensor data.

# About you

- Name and what do you do 😊
- What is your previous experience with Python/Neo4j/graph databases?
- What do you expect to get from this course?

# Course Outline

Day 1	Day 2	Day 3	Day 4
<ul style="list-style-type: none"><li>- Graph theory concepts.</li><li>- Working with Neo4j</li></ul>	<ul style="list-style-type: none"><li>- Intro to NetworkX</li><li>- Loading data from Neo4j into NetworkX</li><li>- Path finding algorithms.</li></ul>	<ul style="list-style-type: none"><li>- Node Centrality</li><li>- Community detection.</li><li>- Social networks and propagation.</li></ul>	<ul style="list-style-type: none"><li>- Simulating networks.</li><li>- Networks in space and time.</li><li>- Graphs as matrices.</li></ul>

# Timeline

- 9:30-12:30: Morning session
- 12:30-13:30 Lunch break
- 13:30-16:30 Afternoon session
  - Short breaks within morning and afternoon sessions.