Jordi Salinas San Martin

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Education

PhD in Nuclear Physics • UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN (UIUC) Jul. 2026

- ◊ 4 Published research papers
- ◊ 5 Talks in international conferences
- ◊ 2 International collaboration contributions
- ◊ GPA 3.96/4.00
- ◊ ANID National Chilean Scholarship Fellow
- ◊ Mavis Future Faculty Fellow
- ◊ Society of Hispanic Professional Engineers Fellow
- ◊ CONACyT SNI III Research Assistant Fellow

MSc in Physics • NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO (UNAM) Jul. 2020

- ◊ 6 Published research papers
- ◊ 2 Talks in international conferences
- ◊ 3 Participations in technical summer schools
- ◊ 1 Research internship experience
- ◊ CONACyT Graduate Fellow
- ◊ Graduated with honors

Relevant Experience

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN (UIUC) Urbana, IL

Teaching Assistant Aug. 2020 – Jul. 2026

- Taught classes for 7 different courses at undergraduate and graduate level on Physics; maintained weekly office hours and problem-solving sessions; graded problem sets, exams, and presentations

NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO (UNAM) Mexico City, MX

Teacher Assistant Jan. 2017 – Dec. 2024

- Taught classes for 5 different courses at undergraduate and graduate levels on Physics and Computing; led group discussion sessions; graded problem sets, exams, and presentations

MONTERREY HIGHER EDUCATION TECHNOLOGY INSTITUTE (ITESM) Mexico City, MX

High school teacher Aug. 2020 – Dec. 2020

- Taught a Physics course at the high school level; prepared lectures, designed take-home assignments, graded exams, and promoted group activities; rated as excellent by students and department

CO-DECK Mexico City, MX

Data analyst intern Apr. 2018 – Aug. 2019

- Used the ARIMA and ANOVA techniques to perform data analysis for 9 companies to aid in business decisions using the Pandas, NumPy, SymPy, Seaborn and Matplotlib Python libraries

Technical Skills & Projects

Language: Spanish (native), English (fluent), French (reading comprehension), Catalan (reading comprehension).
Programming: Python, Mathematica, C++, Bash, CMake, LaTeX, YAML, SLURM.

Relativistic Fluid Dynamics Simulation Framework
Designed and implemented a stack for simulating all stages of a relativistic heavy-ion collision using fluid dynamics in parallel on a high-performance computing cluster. Implemented on Python and C++ and deployed on SLURM clusters.

Analysis Suite for Heavy-ion Collision Simulations
Created a modular C++ set of programs to analyze the data created by relativistic heavy-ion collision simulations using hydrodynamics. Analyses make use of advanced statistical techniques and numerical algorithms to improve performance.

Leadership & Activities

ENGINEERING GRADUATE STUDENT ADVISORY COMMITTEE Urbana, IL

Board Member Aug. 2023 – Jul. 2024

- Lead discussions on topics of interest for the U. of Illinois as the representative of the Physics student body

MEXICAN AND MEXICAN AMERICAN STUDENTS INITIATIVE Urbana, IL

Board Member Aug. 2020 – present

- Organized the U. of Illinois initiative for student recruiting campaign in higher-ed institutions in Mexico