Aras Amini

Nationality: Iranian **Date of birth:** 28/06/1997 **Phone number:** (+33) 0650805977

Email address: aras.amini@universite-paris-saclay.fr

LinkedIn: https://www.linkedin.com/in/aras-amini-b91079128/

Website: github.com/aaminii

Home: 1 Sq. de Provence, 91380 CHILLY MAZARIN (France)

EDUCATION AND TRAINING

Master in Physics
Université Paris-Saclay [09/2021 – Current]

Address: 3 Rue Joliot Curie 2e ét, 91190 Gif-sur-Yvette (France)

Double Degree, Master in Physics
La Sapienza University [02/2022 – 07/2022]

Address: Piazzale Aldo Moro, 5, 00185 Roma (Italy)

Bachelor of Science
Urmia university [2015 – 2020]

Address: Iran, Urmia city, 11km SERO Road, 5756151818 Urmia (Iran)
Field(s) of study: Physics

- GPA: 17.54 / 20
- Ranked: 2nd Place among 34 students

Summer School on Science Management for Scientists and Engineers
Università degli Studi di Genova [18/07/2022 – 29/07/2022]

JUAS Winter School on The Technology & Applications of Particle Accelerators
European Scientific Institute [02/2023 – 04/2023]

Country: France

EUGLOH Summer School on Large-Scale Facilities for Global Health
Université Paris-Saclay [27/06/2021 – 30/06/2021]

WORK EXPERIENCE

Teaching assistant
Urmia university [08/2019 – 12/2019]

Recitation classes for undergraduate students under the supervision of Professor Hadi Goudarzi
- Solving problems of "Mathematical Methods for Physics "
- Performed all duties as a T.A. (for a class size of 43)

RESEARCH EXPERIENCE

Plasma Diagnostics for Plasma based Accelerators at INFN/Frascati

[03/2022 – 07/2022]

- Measuring the Plasma density inside capillaries using Time-Resolved spectroscopy
- Denosing AutoEncoder(DAE) for Image denoising

Practical work at SOLEIL synchrotron

[11/2022 – 12/2022]

- Crystallography by Low Energy Electron Diffraction on Topological Insulator
- Longitudinal Beam measurement of SOLEIL synchrotron with a Streak camera
- Designing QUAPEVA Quadrupole using RADIA library, and comparing it to experimental measurement

Practical work at CERN

[03/2023]

1. Beam Diagnostic of CLEAR beamline
2. Radio-Frequency Measurement Methods

Energy and Exergy Modeling

[09/2019 – 09/2020]

Analytical Fuel Cell Modeling and Exergy Analysis of Fuel Cells by MATLAB

Master's thesis at ICMUV institute Valencia

[03/2023 – 08/2023]

Under the supervision of Dr. Javier Resta López with the title " Modeling ultra-high accelerating gradients in carbon-based nanostructures through an effective plasma-density approach".

PUBLICATIONS

Energy, Exergy, Economic, Risk and Reliability analyses of a Combined Cooling, Heating and Power system based on a Molten Carbonate Fuel cell

[2022]

Published in The Korean Journal of Chemical Engineering

DIGITAL SKILLS

Python / Matlab / Machine Leraning / Comsol Multiphysics / Linux / EES / Microsoft Office / Latex / Geant4 / Ansys Electronics Desktop

LANGUAGE SKILLS

Mother tongue(s): **Kurdish** | **Persian**

Other language(s): **English** | **Spanish** | **French**

HONOURS AND AWARDS

Erasmus Mundus Joint Masters scholarships
European Union [2021]

Best semester GPA among Physics student
Urmia university [2018]

Award prize was 500000 Rials

RECOMMENDATIONS

Professor
Name: Sophie Kazamias
Email: sophie.kazamias@universite-paris-saclay.fr

Master's coordinator

Professor
Name: Gianluca Cavoto
Email: gianluca.cavoto@uniroma1.it

Master's coordinator

Professor
Name: Stefano Giagu
Email: stefano.giagu@uniroma1.it

Master's Professor