

# MARTINA MOLINARI

## PHD STUDENT IN ENERGY AND ENVIRONMENT (NUCLEAR ENGINEERING GROUP)

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### ACTUAL POSITION

PhD Student in Energy and Environment (DIAEE) - XXXVII cycle. Research title: "Development and validation of models for the production and contamination transfer of corrosion products in refrigeration circuits of tokamak fusion plants"

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### CONTACTS

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LikedIn: molinari-martina

### EDUCATION

#### MASTER OF SCIENCE DEGREE IN ENERGY (AND NUCLEAR) ENGINEERING - "LA SAPIENZA" UNIVERSITY OF ROME

- MARCH 2021

- Master thesis' title: "Test of a modified version of RELAP5/MOD3.3 with transient analysis of OSU MASLWR test facility"  
-Final grade: 106/110

#### BACHELOR OF SCIENCE DEGREE IN ENERGY ENGINEERING "LA SAPIENZA" UNIVERSITY OF ROME

- MAY 2018

- Thesis' title : "Study and comparison of nickel-based superalloys for applications in nuclear reactors"  
-Final grade: 97/110

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### TRAINING EXPERIENCES

#### POST GRADUATE RESEARCH ACTIVITY- "LA SAPIENZA" UNIVERSITY OF ROME

MAY 2021- AUG 2021

Research activity title "Validation of new correlations for heat exchange implemented in RELAP5/MOD3.3"

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### PUBLICATIONS - SCIENTIFIC PAPERS

- "Transient analysis of OSU MASLWR test facility with RELAP5", Journal of Physics: Conference Series
- "Transient analysis of SIRIO using RELAP5/MOD3.3 system code", Journal of Physics: Conference Series
- "Test matrices definition for the SIRIO facility in the frame of the H2020-PIACE project pre-test simulation results and conclusions", IAEA technical document under review
- "RAVEN/OSCAR-Fusion coupling for activated corrosion products assessments, sensitivity, and uncertainty quantification", IEEE Transactions on Plasma Science

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### IT

MICROSOFT OFFICE SUITE, GOOGLE SUITE, AUTOCAD, FUSION 360, OS WINDOWS, OS LINUX

### PROGRAMMING LANGUAGES

MATLAB, PYTHON, C++ (BASIC USER), XML

### CALCULATION CODES

RELAP5, RELAP5-3D, OSCAR-FUSION

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### LANGUAGE SKILLS

ITA: NATIVE SPEAKER

ENG: GOOD (WRITTEN AND SPOKEN)

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UPDATED ON 1/11/2022