

Dr. Ing. Alekos Ioannis Garivalis, PhD

Born in Pontedera, Italy, March 20, 1994

STUDY AND RESEARCH

2008-13 Italian “Maturità scientifica” (97/100)

2013-16 Bachelor’s degree in Mechanical Engineering with top grades (110/110), University of Pisa

2016-18 Master’s degree in Mechanical Engineering with top grades (110 cum Laude/110), University of Pisa

2018 – Research scholarship, Department of Energy, Systems, Territory and Constructions Engineering, University of Pisa

2020 National Examination for Qualification to the Profession of Engineer (224/240)

2018-2022 PhD in Energy, Systems, Territory and Constructions Engineering, University of Pisa

2022-2023 Post-doctoral Position, Department of Energy, Systems, Territory and Constructions Engineering, University of Pisa

2023- Assistant professor, Department of Energy, Systems, Territory and Constructions Engineering, University of Pisa

Main research fields: electrohydrodynamics, single-phase and multiphase heat transfer, boiling fundamentals, boiling enhancement, evaporation dynamics, experimentation in microgravity, thermal energy storages, phase change slurries, microencapsulation. Author or co-author of 15 scientific works. In these papers, innovative research is presented in the fields of boiling enhancement in microgravity (experiments on board parabolic flights), boiling fundamentals (experiments on board International Space Station) and evaporation (experiments on board parabolic flights and sounding rockets). The latest studies deal with heat transfer with phase change materials for thermal energy storage applications.

TEACHING

2019-2022 Lecturer for “Thermodynamics” and “Heat transfer”, Mechanical Engineering (BSc), "Applied Thermofluid dynamics", Mechanical Engineering (MSc) and “Two-phase systems”, Energy Engineering (MSc)

2022 Seminar lecture titled “Thermal measurements in two-phase systems” for the PhD course in Department of Energy, Systems, Territory and Constructions Engineering, University of Pisa

2023- Assistant Professor at University of Pisa for "Applied Thermofluid dynamics", Mechanical Engineering (MSc), "Heat transfer", Mechanical Engineering (BSc).

Supervisor of 5 Laurea theses and 1 PhD thesis.