Ourania Giannopoulou

Personal Data

Date of birth	14 September 1988
Nationality	Greek
Gender	Female
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Office	Istituto Nazionale per Studi ed Esperienze di Architettura Navale Vasca Navale - I.N.S.E.A.N., Via di Vallerano 139, 2nd Floor

Current Position

2017 - today Ph.D Student in Applied Mathematics, Department of Mathematics "Guido Castelnuovo", Sapienza University of Rome, Italy

Tutor: Corrado Mascia

Advisors: Colagrossi Andrea, Di Mascio Andrea

Research interests

- Vortex Particle Methods for flow simulation in exterior domains
- Numerical methods for incompressible Navier Stokes equations
- Numerical methods for Computational Fluid Dynamics

Academic training

2016 MSc in Applied Mathematical Sciences, National Technical University of Athens, Athens, Greece, Specializations: Analysis and Partial Differential Equations.

2014 BSc in Applied Mathematics and Physics, National Technical University of Athens, Athens, Greece

Theses

Title	The forward and inverse problems of electroencephalography and magnetoencephalography in ellipsoidal geometry (in Greek)
Advisor	Prof. Antonios Chalarambopoulos

Subject	Solving the forward and inverse problems of electroencephalography and magnetoencephalography for the homogeneous or the non homogeneous three shell conductive medium with one dipole current source.
Title	The Mathematical model of the Hodgkin Huxley neuron model (in Greek)
Advisor	Prof. Dimitrios Tzanetis
Subject	Mathematical modeling of Hodgkin - Huxley neuronal model and its simplified models Fitzhugh-Nagumo and Morris-Lecar via bifurcation analysis of dynamical systems.

Seminars given

February 2019	Seminar of Numerical Analysis Modeling, Department of Mathematics "Guido Castelnuovo", University of Rome "La Sapienza"

Seminars / Schools Attended

December 2018	HPC methods for Computational Fluid Dynamics and Astrophysics, organiser: CINECA, Venue: Roma Sapienza - Facoltà di Ingegneria Civile e Industriale

Publications

O. Giannopoulou, A. Colagrossi, A. Di Mascio, C. Mascia, Chorin's approaches revisited: Particle Vortex Method vs. Finite Volume Method (2019). Submitted for publication on "Engineering Analysis with Boundary Elements"

Languages

Greek	Native
English	Proficiency
Italian	Moderate
German	Basic

Computer skills

Good knowledge	Matlab, Octave, Fortran, LaTeX, Paraview, Tecplot