Maria Grazia Notarangelo

Curriculum Scientifico

Personal Information

Maria Grazia Notarangelo

Date and place of birth 07/02/1985, San Giovanni Rotondo (Fg), Italy

Nationality

Home Address

4, via Trepiccioni, Vieste (FG)

Address

42, P.le R. Ardigó, Roma (00142)

Phone

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Current Position

November 2010-to date

PhD in "Modelli e Metodi Matematici per la Tecnologia e la Societá", Dep. SBAI, Sapienza, University of Rome, Rome, .

I am waiting to defend my PhD thesis.

Thesis: A Mathematical model of Intracellular transport: role of microtubules and Ran cycle

in the nucleocytoplasmic plasmids transport in gene therapy anti-tumor.

Advisor: Roberto Natalini, Director IAC-CNR, Rome

Education

February 2008-October 2010 Master Degree in Applied Mathematics, Dep. Mathematics "G. Castelnuovo",

Sapienza, University of Rome, Rome, .

Thesis: Equazione di Viasov in presenza di un campo singolare. Advisor: Mario Pulvirenti, Full Professor in Mathematical Physics (University of Sapienza).

Vote: 108.

September 2004-February 2008 Degree in Mathematics, Dep. Mathematics "G. Castelnuovo", Sapienza, University of Rome, Rome, .

Thesis: Problemi di Integrabilità nella Meccanica Anolonoma.

Advisor: Piero Negrini, Full Professor in Rational Mechanics (University of Sapienza).

Vote: 105.

Experience

Vocational

a.a 2013/14

Tutor of the course: "Matematica", Master in "Scienze dell'Alimentazione e Nutrizione Umana", Prof. G. Brettl, Campus Biomedico University, Rome.

Tutor of the course: "Analisi Matematica", Master in Industrial Engeenering, Prof. M.Papi, Campus Biomedico University, Rome.

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a.a 2012/13 Tutor of the course: "Analisi Matematica", Degree in Industrial Engeenering, Prof. M. Papi, Campus Biomedico University, Rome.

Tutor of the course: "Geometria", Degree in Aerospace Engineering, Prof. A.Delfrá, Sapienza, University of Rome, Rome.

Tutor of the course: "Geometria", Degree in Electronic Engineering, Prof. P.Maroscia, Sapienza, University of Rome, Rome.

Tutor of the course: "Geometria", Degree in Civil Engineering, Prof. L.Piccolella, Sapienza, University of Rome, Rome.

a.a 2011/12 Tutor of the course: "Geometria", Degree in Aerospace Engineering, Prof. A.Delfrá, Sapienza, University of Rome, Rome.

Tutor of the course: "Geometria", Degree in Construction Engineering, Prof. B.Nelli, Sapienza, University of Rome. Rome.

Tutor of the course: "Analisi Matematica 1", Degree in Clinical Engineering, Prof. A.Pistola, Sapienza, University of Rome, Rome,

a.a 2010/11 Tutor of the course: "Geometria", Degree in Aerospace Engineering, Prof. A.Delfrá, Sapienza, University of Rome, Rome.

Tutor of the course: "Geometria", Degree in Environmental and Geometric Engineering, Prof. D.Salvitti, Sapienza, University of Rome, Rome.

Tutor of the course: "Geometria", Degree in Electronic Engineering, Prof. S.Capparelli, Sapienza, University of Rome, Rome.

September 2010-October 2010

Teacher of the course: "Precorso di Matematica per la Facoltá di SMFN", Sapienza, University of Rome, Rome.

a.a. 2009/10 Lab Assistant at "Centro di Calcolo", Dep. Mathematics "G. Castelnuovo", Sapienza, University of Rome, Rome.

NATIONAL PROPERTY DESCRIPTION OF THE PROPERTY OF THE PROPERTY

Languages

English Upper intermediate.

Deutshe Beginner.

ASSESSMENT OF THE PROPERTY.

Numerical Software Matlab, C++, Latex.

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Research Interest

The area of my research is applied mathematics and numerical methods. My interests focus on developing mathematical multi-domain models to describe biological phenomena. In my PhD-thesis work, I studied how optimize the transport of cancer vaccine into the cell. The main modelling techniques involved are the use and analysis of partial differential equations. I use Matlab for numerical simulations. It has been necessary to understand and clarified the mechanisms that regulate the transport process and interaction of the vaccine with other proteins presented in a cell. I collaborated with biologists, among which Emanuela Signori of Laboratory of Molecular Pathology and Experimental Oncology, CNR-IFT, Rome, Italy, and Laboratory of Molecular Medicine and Biotechnology, CIR, University Campus Bio-Medico of Rome, Rome, Italy. I am much interested in biological problems and in the analysis of data.

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ISTRUMENTAL PROPERTY OF THE PR

Pubblication

- Notarangelo MG, Natalini R, Signori E. Gene Therapy: The Role of Cytoskeleton in Gene Transfer Studies Based On Biology and Mathematics. Current Gene Therapy Vol 14, 2, 121-127.
- 2. Notarangelo MG, Natalini R. A Mathematical model of intracellular transport: role of microtubules and Ran cycle in the nucleocytoplasmic plasmids transport. (In preparation).

Maria Grazia Nobarayolos

