

PERSONAL INFORMATION

Eleni Georgiadi, PhD

Date of birth: July 26, 1979

Citizenship: Greek

Research Gate: https://www.researchgate.net/profile/Eleni_Georgiadi2

Google scholar: https://scholar.google.gr/citations?hl=en&user=jWL44LgAAAAJ&view_op=list_works

ACADEMIC EDUCATION

05/2008-07/2013 Ph.D.

University of Patras- School of Medicine

National Technical University of Athens - Faculty of Electrical & Computer Engineering

In Silico Oncology and In Silico Medicine Group

PhD Thesis: "A 4D spatiotemporal simulation model of the free growth of Wilms' tumours and its response to chemotherapeutic regimens. Individualization and optimization of therapeutic schemes. Clinical adaptation of the model."

Supervisor: Prof N. Uzunoglu

10/2002-10/2003 MSc in Medical Physics

University of Surrey (United Kingdom) – Department of Physics

MSc Thesis: "Clinical Audit to Assess The Impact of PET/CT Patient Management in the UK. "

Supervisor: Prof. N.M.Spyrou

09/1997-09/2002 B.Sc., Physics

Aristotle University of Thessaloniki - Physics Department

Specialization: Nuclear and Particle Physics

Diploma Thesis: "Neutrons scattering."

Supervisor: Prof. M. Zamani

RESEARCH EXPERIENCE

07/2013-12/2017

Senior Researcher, Post-Doctoral Fellow

National Technical University of Athens

Faculty of Electrical and Computer Engineering

In Silico Oncology and In Silico Medicine Group

Participation in EU funded programs (FP7): CHIC; P-Medicine; DrTherapat; MyHealthAvatar

05/2008-07/2013

Researcher, PhD program

National Technical University of Athens

Faculty of Electrical and Computer Engineering

In Silico Oncology and In Silico Medicine Group

Participation in EU funded programs (FP6-7): ACGT; ContraCancrum; TUMOR; P-Medicine

04/2006-04/2008

Research Assistant

Foundation for Research and Technology Hellas (FORTH)

Institute of Computer Science

Biomedical Informatics Laboratory

Training bursary (participation in EU- FP6 funded program: ACGT)

TEACHING EXPERIENCE

- 2021-23** *University of West Attica*
Department of Biomedical Sciences - Course: Biophysics
Biomedical Engineering Department - Course: Radiation Protection – Quality Assurance & Control

NON – ACADEMIC WORKING EXPERIENCE

- 10/2011-6/2013 & 07/2015 – present** **Medical Physicist**, Radiation Protection Advisor in Public Primary Health Units
Greek National Organization for the Provision of Health Services (<https://eopyy.gov.gr/>),
1st Regional Health Directorate (<http://www.1dype.gov.gr/>)
- 1/2005-1/2006** **Radiation Protection Advisor**, Levadia & Amfissa General Hospitals (Greece)
- 12/2003 –12/2004** **Training in Medical Physics**
Grade-A training: Diagnostic Radiology; Nuclear Medicine; Radiotherapy
Evangelismos Hospital (Athens-Greece); Areteion University-Hospital (Athens-Greece)

PARTICIPATION IN EU-FUNDED PROJECTS

- 1. ACGT** (FP6-2005-IST-026996)
- 2. Contra Cancrum**: Clinically Oriented Translational Cancer Multilevel Modelling (FP7--IST-223979)
- 3. TUMOR**: Transatlantic TUmour MOdel Repositories (FP7--IST-247754)
- 4. P-Medicine**: From data sharing and integration via VPH models to personalized medicine (FP7 FP7-ICT-2009.5.3 under grant agreement n° 270089)
- 5. DR-THERAPAT**: The Digital Radiation Therapy Patient (FP7-ICT-2011-9, ICT-9-5.2d - Virtual Physiological Human, Project No. 600852)
- 6. MyHealthAvatar**: (FP7/2007-2013 under grant agreement no 600929)
- 7. CHIC**: Computational Horizons in Cancer (FP7/2007-2013 under grant agreement no 600841)

PUBLICATIONS (258 citations/researchgate)

JOURNALS:

- Nikolaos A. Christodoulou, Nikolaos E. Tousert, **Eleni Ch. Georgiadi**, Katerina D. Argyri, Fay D. Misichroni and Georgios S. Stamatakos. A Modular Repository-based Infrastructure for Simulation Model Storage and Execution Support in the Context of In Silico Oncology and In Silico Medicine. *Cancer Informatics*. 2016(15) 219-235 **2016**
- G Stamatakos, Member , IEEE , D Dionysiou, A Lunzer, R Belleman, E Kolokotroni, **E Georgiadi**, M Erdt, J Pukacki, S Rueping, S Giatili, A d`Onofrio, S Sfakianakis, K Marias, Member , IEEE , C Desmedt, M Tsiknakis, Member , IEEE , and N Graf, Member , IEEE "The Technologically Integrated Oncosimulator: Combining Multiscale Cancer Modeling with Information Technology in the In Silico Oncology Context" DOI:10.1109/JBHI.2013.2284276 *IEEE J Biomedical and Health Informatics* vol.18, No. 3, pp.840-854 **2014**
- E.C.Georgiadi**, D.D.Dionysiou, N.Graf, G.Stamatakos, "Towards In Silico Oncology: Adapting a Four Dimensional Nephroblastoma Treatment Model to a Clinical Trial Case Based on Multi-Method Sensitivity Analysis." 2012 Nov; 42(11):1064-78. doi: 10.1016/j.compbimed.**2012**.08.008.
- S.Stamatakos, **E.Ch.Georgiadi**, N.Graf, E.A.Kolokotroni, and D.D.Dionysiou, "Exploiting Clinical Trial Data Drastically Narrows the Window of Possible Solutions to the Problem of Clinical Adaptation of a Multiscale Cancer Model", *PLOS ONE* 6(3), e17594, **2011**
- G.S.Stamatakos, E.A.Kolokotroni, D.D.Dionysiou, **E.Ch.Georgiadi**, C.Desmedt. An advanced discrete state - discrete event multiscale simulation model of the response of a solid tumor to chemotherapy: Mimicking a clinical study. *Journal of Theoretical Biology* 266, 124-139, **2010**
- N. Graf, A. Hoppe , **E. Georgiadi**, R. Belleman, C. Desmedt, D. Dionysiou, M. Erdt , J. Jacques, E. Kolokotroni, A. Lunzer, M. Tsiknakis, G. Stamatakos "In Silico Oncology" for Clinical Decision Making in the Context of Nephroblastoma. [DiBedeutung von ‚in silico Onkologie` zur klinischen Entscheidungsfindung am Beispiel des Nephroblastoms] *Klin.*

Paediatr. (Klinische Paediatric) 221, 141-149, 2009

7. G.S.Stamatakos, E.Kolokotroni, D.Dionysiou, **E.Georgiadi**, S.Giatili, In silico oncology: a top-down multiscale simulator of cancer dynamics. Studying the effect of symmetric stem cell division on the cellular constitution of a tumour. World Congress 2009 on Medical Physics and Biomedical Engineering, Sept 7-12, Munich, Germany. O. Doessel and W.C. Schlegel (Eds.): WC 2009, IFMBE Proceedings 25/IV, pp.1830-1833. www.springerlink.com **2009**
8. K.Marias, D.Dionysiou, G.S. Stamatakos, F.Zacharopoulou, **E.Georgiadi**, T.G.Maris, I.Tollis, Multi-level analysis and information extraction considerations for validating 4D models of human function, Lecture Notes in Computer Science, 4561, 703-709, **2007**
9. **E.Georgiadi**, N.M.Spyrou, S. Gtootoonk , G.Cook, "Clinical Audit To Assess The Impact of PET/CT Patient Management in the UK", Nuclear Medicine Communications **2004**, Vol 25 No 4

CONFERENCES (invited talks):

1. F. Panagiotidou, D. Masouros, M. Meyerheim, **E. Georgiadi**, N. Graf, D. Soudris, G. Stamatakos; "Virtual instances or avatars of a nephroblastoma digital twin: creating a performance efficient architecture for the clinical adaptation of the Nephroblastoma Oncosimulator"; Book of Abstracts of the VPH**2022** (Virtual Physiological Human Conference)(Page 136)
2. G. Stamatakos, D. Dionysiou, R. Bohle, S. Gool, L. Solie, F. Dong, N. Mcfarlane, M. Viceconti, D. Tar-tarini, K. Marias, V. Sakkalis, N. Forgo, I. Lishchuk, R. Radhakrishnan, A. Ghosh, H. Byrne, J. Grogan, C. Guiot, I. Stura, P. Buechler, M. Reyes, E. Neri, A. Bucur, B. de Bono, S. Alexander, G. Erbacci, D. Testi, M. Tsiknakis, E. Kolokotroni, **E. Georgiadi**, N. Touser, S. De Vleeshouwer, D. Walker, S. Sfakianakis, I. Karatzanis, S. Bna and N. Graf on behalf of the CHIC consortium. Computational Horizons In Cancer (CHIC): Developing Meta- and Hyper-Multiscale Models and Repositories for In Silico Oncology. Strategies, Systems and Results. International Conference and Exhibition on Pediatric Oncology. Toronto, Ontario, Canada **2016**
3. **Eleni Ch. Georgiadi**, Nikolaos A. Christodoulou, Christos Kyrourdis, Feng Dong, Norbert Graf and Georgios S. Stamatakos. Oncosimulator Models as Components of a Personal Health Record Platform can Enable and Enhance the Provision of Personalized Medical Treatment. Virtual Physiological Human (VPH) Conference pp. 297-300 Amsterdam, Netherlands **2016**
4. Georgios Stamatakos, Eleni Kolokotroni, Daniel Abler, **Eleni Georgiadi**, Dimitra Dionysiou, Philippe Buechler, Markos Antonopoulos, Lien Solie, Nikolaos Touser, Simone Bna, Debora Testi, Stefaan Van Gool, Rainer Bohle, and Norbert Graf on behalf of the CHIC Consortium. Important Aspects of the Large Scale Integrating EU-US Project CHIC on Advancing In Silico Oncology. Virtual Physiological Human Conference (site: <http://vph-conference.org/>) pp.319-322 Amsterdam, Netherlands, 2016
5. Marek Blazewicz, **Eleni Ch. Georgiadi**, Juliusz Pukacki, and Georgios S. Stamatakos, Development of the p-medicine Oncosimulator as a Parallel Treatment Support System. In G. Stamatakos and D. Dionysiou (Eds): Proc. 2014 6th Int. Adv. Res. Workshop on In Silico Oncology and Cancer Investigation - The CHIC Project Workshop (IARWISOCI), (open-access version), ISBN: 978-618-80348-1-5. pp. 56-60 Athens, Greece, Nov.3-4, **2014**
6. **Eleni Ch. Georgiadi**, Dimitra D. Dionysiou, Norbert Graf and Georgios S. Stamatakos, "Modeling nephroblastoma treatment response cases with in-silico scenarios", 10/**2012**; In proceeding of: 2012 5 th Int. Adv. Res. Workshop on In Silico Oncology and Cancer Investigation – The TUMOR Project Workshop (IARWISOCI), At Athens, Greece, Volume: ISBN: 978-618-80348-0-8 (open-access version) , www.5th-iarwisoci.iccs.ntua.gr, Edited by G. Stamatakos and D. Dionysiou, pages 35-28.
7. **E.Georgiadi**, D.Dionysiou, E.Kolokotroni, N.Uzunoglu, N.Graf, G.Stamatakos, "Discrete event based modeling of nephroblastoma: sensitivity considerations", in G. Stamatakos and D. Dionysiou (Eds): Proc. 4th Int. Adv. Res. Workshop on In Silico Oncology and Cancer Investigation (4th IARWISOCI) - The ContraCancrum Workshop, Athens, Greece, Sept. 8-9, 2010 (www.4th-iarwisoci.iccs.ntua.gr), pp.62-64. **2010**
8. G.Stamatakos, D.Dionysiou, **E.Georgiadi**, E.Kolokotroni, S.Giatili, A.Hoppe, C.Desmedt, A.Lunzer, M.Erdt, J.Jacques, J.Pukacki, R.Belleman, P.Melis, A.d Onofrio, F.Buffa, B.Claerhout, S.Rueping, K.Marias, M.Tsiknakis, N.Graf, "The ACGT Oncosimulator: from conceptualization to development via multiscale cancer modeling", in G. Stamatakos and D.

- Dionysiou (Eds): Proc. 4th Int. Adv. Res. Workshop on In Silico Oncology and Cancer Investigation (4th IARWISOCI) - The ContraCancrum Workshop, Athens, Greece, Sept. 8-9, 2010 (www.4th-iarwisoci.iccs.ntua.gr), pp.54-57. **2010**
9. E.Kolokotroni, D.Dionysiou, **E.Georgiadi**, N.Uzunoglu, G.Stamatakos, "Breast cancer modeling in the clinical context: parametric studies", in G. Stamatakos and D. Dionysiou (Eds): Proc. 4th Int. Adv. Res. Workshop on In Silico Oncology and Cancer Investigation (4th IARWISOCI) - The ContraCancrum Workshop, Athens, Greece, Sept. 8-9, 2010 (www.4th-iarwisoci.iccs.ntua.gr), pp.58-61. **2010**
 10. Georgios Stamatakos, Dimitra Dionysiou, **Eleni Georgiadi**, Eleni Kolokotroni, Stavroula Giatili, Norbert Graf , "In Silico Oncology: Multiscale Modelling of Clinical Tumour Response to Treatment Based on Discrete Entity - Discrete Event Simulation. The Oncosimulator concept.", 09/**2010**; In proceeding of: 1st Virtual Physiological Human Conference, Organized by the Virtual Physiological Human Network of Excellence www.vph-noe.eu, FP7-ICT-2007-2, Project 223920, At Brussels, Belgium, Volume: Pages 136-138
 11. G.Stamatakos, D.Dionysiou, S.Giatili, E.Kolokotroni, **E.Georgiadi**, A.Roniotis, V.Sakkalis, P.Coveney, S.Wan, S.Manos, S.Zasada, A.Folarin, P.Buechler, T.Bardyn, S.Bauer, M.Reyes, T.Bily, V.Bednar, M.Karasek, N.Graf, R.M.Bohle, E.Meese, Y.-J.Kim, H.Stenzhorn, G.Clapworthy, E.Liu, J.Sabczynski, K.Marias, "CONTRA CANCRUM AT THE PROJECT LEVEL: The ContraCancrum Oncosimulator: Integrating biomechanisms across scales in the clinical context", in G. Stamatakos and D. Dionysiou (Eds): Proc. 4th Int. Adv. Res. Workshop on In Silico Oncology and Cancer Investigation (4th IARWISOCI) - The ContraCancrum Workshop, Athens, Greece, Sept. 8-9, 2010 (www.4th-iarwisoci.iccs.ntua.gr), pp.68-71. **2010**
 12. **Eleni Ch. Georgiadi**, Eleni A. Kolokotroni, Dimitra D. Dionysiou, Norbert M. Graf, A. Hoppe, N. K. Uzunoglu and Georgios S. Stamatakos, "Simulating the Response of Nephroblastoma Tumor to Chemotherapy in the Clinical Context," Proceedings of the 3rd International Advanced Research Workshop on In Silico Oncology, Istanbul, Turkey, Sept. 23-24, 2008. Edited by G.Stamatakos and D. Dionysiou pp.27-30, **2008**
 13. **E. Ch. Georgiadi**, G. S. Stamatakos, N. M. Graf, E. A. Kolokotroni, D. D. Dionysiou, A. Hoppe, N. K. Uzunoglu, "Multilevel Cancer Modeling in the Clinical Environment: Simulating the Behavior of Wilms Tumor in the Context of the SIOP 2001/GPOH Clinical Trial and the ACGT Project," Proc. 8th IEEE International Conference on Bioinformatics and Bioengineering (BIBE 2008), Athens, Greece, 8-10 Oct. 2008. IEEE Catalog Number: CFP08266, ISBN: 978-1-4244-2845-8, Library of Congress: 2008907441, Paper No. BE-2.1.2, length: 8 pages (in electronic format). **2008**
 14. Eleni. A. Kolokotroni, **Eleni. Ch. Georgiadi**, Dimitra. D. Dionysiou and Georgios. S. Stamatakos, "A 4-D Simulation Model of Tumor Free Growth and Response to Chemotherapy in Vivo: The Breast Cancer Case," Proceedings of the 3rd International Advanced Research Workshop on In Silico Oncology, Istanbul, Turkey. Sept. 23-24, 2008. Edited by G.Stamatakos and D. Dionysiou pp31-34, **2008**
 15. E. A. Kolokotroni, G. S. Stamatakos, D. D. Dionysiou, **E. Ch. Georgiadi**, Ch. Desmedt, N. M. Graf, "Translating Multiscale Cancer Models into Clinical Trials: Simulating Breast Cancer Tumor Dynamics within the Framework of the "Trial of Principle" Clinical Trial and the ACGT Project." Proc. 8th IEEE International Conference on Bioinformatics and Bioengineering (BIBE 2008), Athens, Greece, 8-10 Oct. 2008. IEEE Catalog Number: CFP08266, ISBN: 978-1-4244-2845-8, Library of Congress: 2008907441, Paper No. BE-2.1.1, length: 8 pages (in electronic format). **2008**
 16. Stavroula. G. Giatili, Georgios. S. Stamatakos, Dimitra D. Dionysiou, Eleni A. Kolokotroni, **Eleni Ch. Georgiadi**, "Geometrical and Mechanical Aspects of Tumor Growth and Response to Chemotherapeutic Schemes in the Context of the ACGT Oncosimulator," Proceedings of the 3rd International Advanced Research Workshop on In Silico Oncology, Istanbul, Turkey, Sept. 23-24, 2008. Edited by G. Stamatakos and D. Dionysiou pp.35-37, **2008**
 17. Kostas Marias, Dimitra D. Dionysiou, Georgios S. Stamatakos, Fotini Zacharopoulou, **Eleni Georgiadi**, Thanasis Margaritis, Thomas G. Maris Ioannis G. Tollis, "Multi-level Analysis and Information Extraction Considerations for Validating 4D Models of Human Function", International Conference on Digital Human Modeling, ICDHM **2007**: Digital Human Modeling pp 703-709.
 18. F Zacharopoulou, Kostas Marias, **Eleni Georgiadi**, Ioannis G. Tollis, Thomas Maris, "Optimized MR Imaging methodology for tumour characterization", 2nd International Advanced Research Workshop on In Silico Oncology: Advances and Challenges, September 25-26, Orthodox Academy of Crete , p.14-16 Kolympari, Chania, Greece, **2006**

Other project-event

Participation in Avicenna ("A strategy for in silico trials") project event 1: Trajectory, Staging and Goals Event1, 03/2014

LANGUAGES – SKILLS – ADDITIONAL MERITS

Languages: English Fluent / Greek Fluent

Technical skills: *Programming:* C/C++; Matlab; MySQL_
Operating systems: Windows; Linux

Additional merits:

- **Summer School:** Participation in the 6th International Summer School on Biomedical Signal Processing; July 10-17, 2007; Certosa di Pontignano (Siena, Italy)
- **Review activities for workshops:**
 - 3rd International Advanced Research Workshop on In Silico Oncology (3th IARWISOCI), Istanbul, Turkey, Sept. 23-24, 2008
 - Workshop on In Silico Oncology and Cancer Investigation (4th IARWISOCI) - The ContraCancrum Workshop, Athens, Greece, Sept. 8-9, 2010 (www.4th-iarwisoci.iccs.ntua.gr)

REFERENCES

(Available on request)

<p>1. G. S. Stamatakos, Research Professor, In Silico Oncology Group, Microwave and Fiber Optics Laboratory, Institute of Communication and Computer Systems, School of Electrical and Computer Engineering, National Technical University of Athens</p>	<p>E-Mail: gestam@central.ntua.gr Telephone: + 30 210 772 2287 Address: 9, Iroon Polytechniou, GR 157 80, Zografos, Greece, Office 2.1.28, Electrical and Comp. Engineering</p>
<p>2. Nikolaos Uzunoglou, Professor Division of Information Transmission Systems and Material Technology School of Electrical and Computer Engineering, National Technical University of Athens</p>	<p>E-Mail: nuzu@cc.ece.ntua.gr Telephone: +30 (210) 7722289 +30 (210) 7722289 Address: 9, Iroon Polytechniou, GR 157 80, Zografos, Greece, Office 2.1.18, Electrical and Comp. Engineering</p>
<p>3. Alexandros Samartzis, PhD Medical Physicist, RPO Nuclear Medicine & PET/CT Dpt “Evagelismos” General Hospital of Athens</p>	<p>E-Mail: samartzis@ath.forthnet.gr, rpo@evaggelismos-hosp.gr Telephone: +30 213 204 5741 Address: “Evaggelismos” General Hospital of Athens, Nuclear medicine & PET/CT dpt, Ypsiladou 45-47, GR 106 76, Athens, Greece.</p>