Christos PAPAGEORGAKIS

PERSONAL DATA

Date of Birth:	17 January 1989
Place of Birth:	Athens, Greece
Nationality:	Hellenic
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EDUCATION AND TRAINING

Dec. 2017: **Doctor of Philosophy** (**PhD**) degree in Automation, Signal and Image Processing at research center Inria Sophia Antipolis – Méditerranée within APICS and Athena project-teams, co-supervised by BESA GmbH. Thesis title: "*Patient specific conductivity models: Characterizations of the bones of the skull*". Being founded by the region Provence-Alpes-Côte d'Azur and the BESA GmbH company.

Aug. 2014: **Master 2 degree** of Science in **Computational Biology and Biomedicine** at Nice Sophia Antipolis University, France (Grade: Bien 15.49/20, Rank: 2/7). Being founded by the mbassy of France at Greece and the program Vrika.

Aug. 2014: End of a **six month internship** (as part of the second semester of the Master program in Computational Biology and Biomedicine at research center Inria Sophia Antipolis – Méditerranée, within Athena project-team entitled: "*Dictionary learning from multidimensional data*", (Grade: 16.33/20).

July 2013: End of a **six months internship** at COATI project-team, a joint project-team between Inria Sophia Antipolis – Méditerranée and the I3S laboratory, working on "*Implementing algorithms derived from graph theory games*". Being founded by Inria and Campus France.

July 2012: End of a nine months Military Service (Fulfilled Compulsory Military Service).

Feb. 2012: **Degree** in **Computer Science and Biomedical Informatics** of the University of Thessaly (Grade: Very Good 7.27/10).

Feb. 2012: **Dissertation** in **distributed computations** on "Distributed algorithms for discovering faults problems in synchronous rings networks", (Grade: 10/10).

Sept. 2006: Introduction to the Department of Computer Science and Biomedical Informatics of the University of Central Greece (16th rank introduction).

July 2006: High School Diploma of Second High School of Mesolongion, Aitolia-Acarania (Grade: Very Good 17.4/20).

FIELDS OF RESEARCH INTEREST

- Neuroscience
- Human head modelling
- Image and Signal Processing
- Computer Science

PUBLICATIONS

Journal articles

1. M. Clerc, J. Leblond, J.-P. Marmorat and C. Papageorgakis. **Uniqueness result for an inverse conductivity recovery problem with application to EEG**. *Rend. Istit. Mat. Univ. Trieste, Volume 48 (2016), 385-406.*

Communications at conferences

2. C. Papageorgakis, S. Hitziger and T. Papadopoulo. **Dictionary Learning for Multidimensional Data**. *Proceedings of GRETSI 2017, Sept. 2017, Juan-Les-Pins, France.*

3. M. Clerc, J. Leblond, J.-P. Marmorat and C. Papageorgakis. **Inverse conductivity recovery problem in a spherical geometry from EEG data: uniqueness, reconstruction and stability results**. *8ème colloque, Tendances dans les Applications Mathématiques en Tunisie Algérie Maroc (TAMTAM), Mai 2017, Hammamet, Tunisie.*

4. M. Clerc, J. Leblond, J.-P. Marmorat and C. Papageorgakis. **On some inverse conductivity recovery problem in a sphere: Uniqueness and reconstruction results with applications to EEG**. *Problèmes Inverses, Contrôle et Optimisation de Formes* (PICOF), Jun. 2016, Autrans, France.

5. C. Papageorgakis, B. Lanfer and M. Clerc. **Influence of skull modelling on conductivity estimation for EEG source analysis**. *Proceedings of International conference on basic and clinical multimodal imaging (BACI)*, Sept. 2015, Utrecht, Netherlands.

6. C. Papageorgakis, S. Hitziger and T. Papadopoulo. **Dictionary Learning for M/EEG multidimensional data**. *Proceedings of International conference on basic and clinical multimodal imaging (BACI)*, Sept. 2015, Utrecht, Netherlands.

7. C. Papageorgakis, J. Leblond and J.-P. Marmorat. **Inverse skull conductivity estimation problems from EEG data**. *1st International Conference on Mathematical NeuroScience (ICMNS).* June 2015, Antibes, France.

PARTICIPATION IN SEMINARS AND WORKSHOPS

- Programming, specifying, and proving with the COQ system. A one week introductory course (Feb. 2017).
- Semaine d'Étude Maths-Info Entreprises (SEMIE). A week working on industrial problems (Oct. 2016).
- The Language Python. A three day seminar of programming courses (Cabinet Elios Training, Mai. 2014).
- 7th Athens Colloquium on Algorithms and Complexity (ACAC). Department of Informatics Telecommunications, University of Athens, Greece (Aug. 2012).
- IEEEXtreme: 24-Hour Programming Competition. Placed in the top 500 teams (Oct. 2010).
- Telemedicine New Prospects: 2nd Meeting. IEEE Student Branch, University of Central Greece (Apr. 2010).
- Grid Technologies: Two days seminar with theory and exercises. Greek Research Technology Network and University of Central Greece (May 2009).
- Medical Information Systems: 1st Meeting. IEEE Student Branch, University of Central Greece (Mar. 2009).

COMPUTER SKILLS

- **Programming**: C, C++, Java, Python, MatLab, HTML, PHP, Internet scripts
- **Software**: LaTeX, Inkscape, Zotero, Git, SVN, Photoshop, Office, EndNote, SPSS, STATA, MS Visio, Lab View, Multisim, VMD, Joomla
- **Data Bases**: MS Access, SQL
- **OS**: Windows, Linux

ORGANIZATION SKILLS

- Oranization of a two day **Workshop** on **Applied Mathematics**, entitled The World of Insdustrial Mathematics – Le Monde des Mathématiques Industrielles (MOMI2017), supported by Inria and financed by the Société des Mathématiques Appliquées (SMAI), the Agence pour les Mathématiques en Interaction avec l'Entreprise et la Société (AMIES), and by the Université Côte d'Azur.
- Oranization of the **PhD Seminars** at research center Inria Sophia Antipolis – Méditerranée, for one year (2015-2016) with about 40 participants per sessions.

PREVIOUS EXPERIENCE

- **Scientific** and **technical support** constructing algorithms solving **survey engineering problems** (Digital Terrain Model analysis algorithm, flow direction, raster data, flow accumulation) parallel processing, large data manipulation, visualizing results (image processing) in collaboration with a Rural and Surveying Engineering of National Technical University of Athens (2011 - 2012).

ADDITIONAL SKILLS AND INTERESTS

Kite surfing, Sailing, Traditional Dances, Climbing, Diving, Athletics, Literature, Music