



Aimilia Gastouniotti, PhD

Training Background/Current Position:

- Postdoctoral researcher, University of Pennsylvania (*Nov. 2014 - present*)
- Scholar visitor, Ecole Centrale de Paris (*Feb. - July 2014*)
- Ph.D. Biomedical Engineering, National Technical University of Athens (*2009 - 2014*)
- Diploma of Electrical and Computer Engineering (5-year educational program), National Technical University of Athens (*2004 - 2009*)

Research Projects:

Development of automated imaging phenotypes of breast cancer risk with digital mammography and digital breast tomosynthesis

National Institutes of Health/National Cancer Institute (1U54CA163313-01)

"Penn Center for Innovation in Personalized Breast Screening"

Project 2 "Novel Imaging Biomarkers for Guiding Personalized Screening Recommendations"

Leader: D. Kontos, 09/21/2011 - 05/31/2017

Selected Publications:

- **A. Gastouniotti**, B. M. Keller, M. Hsieh, E. F. Conant, and D. Kontos, "Parenchymal texture measures weighted by breast anatomy: preliminary optimization in a case-control study," *SPIE Medical Imaging*, San Diego, CA, USA, February 27-March 3, 2016.
- **A. Gastouniotti**, B. M. Keller, M. Hsieh, E. F. Conant, and D. Kontos, "Towards a breast-anatomy-weighted parenchymal texture signature for breast cancer risk assessment," *MICCAI workshop on Breast Image Analysis (BIA)*, Munich, Germany, October 5-9, 2015.
- **A. Gastouniotti**, B. M. Keller, L. Pantalone, M. Hsieh, A. Oustimov, E. F. Conant, and D. Kontos, "Associations of dense and fatty breast-tissue heterogeneity with breast cancer risk: Preliminary evaluation using parenchymal texture measurements driven by breast anatomy," *RSNA 101st Scientific*

Assembly and Annual Meeting, McCormick Place, Chicago, IL, USA, November 29 – December 4, 2015.

- **A. Gastouniotti**, A. Sotiras, K.S. Nikita, and N. Paragios, "Graph-based motion-driven carotid segmentation in 2D ultrasound sequences," *MICCAI*, Munich, Germany, October 5-9, 2015.
- **A. Gastouniotti**, S. Makrodimitris, S. Golemati, N.P.E. Kadoglou, C.D. Liapis, K.S. Nikita, "A novel computerized tool to stratify risk in carotid atherosclerosis using kinematic features of the arterial wall," *IEEE J Biomed Health Inform*, 2014 (in press). Received: IEEE EMB Greece Chapter award 2014
- N.P.E. Kadoglou, V. Lambadiari, **A. Gastouniotti**, C. Gkekas, T.G. Giannakopoulos, K. Koulia, E. Maratou, M. Alepaki, J. Kakisis, P. Karakitsos, K.S. Nikita, G. Dimitriadis, C. Liapis, "The relationship of novel adipokines, RBP4 and omentin-1, with carotid atherosclerosis severity and vulnerability," *Atherosclerosis*, 235 (2), pp. 606-612, 2014.
- **A. Gastouniotti**, V. Koliass, S. Golemati, N.N. Tsiaparas, A. Matsakou, J.S. Stoitsis, N.P.E. Kadoglou, C. Gkekas, J.D. Kakisis, C.D. Liapis, P. Karakitsos, I. Sarafis, P. Angelidis, K.S. Nikita, "CAROTID – a web-based platform for optimal personalized management of atherosclerotic patients," *Comput Meth Programs Biomed*, 114 (2), pp. 183-193, 2014.

Complete List of Published Work:

<http://www.ncbi.nlm.nih.gov/pubmed?term=Gastouniotti%5BAuthor%5D>

<https://scholar.google.com/citations?user=gs9Ry4oAAAAJ&hl=en>

Grants/Other Awards:

- IEEE EMB Greece Chapter award for the publication *Gastouniotti et al. IEEE JBHI 2014*
- Scholarship from the Hellenic State Scholarships Foundation for "short-term scholar visits in reputed scientific/research centres" (2014)
- Scholarship from the Hellenic State Scholarships Foundation for PhD Studies (2010 – 2014)
- Grants from the Institute of Communication and Computer Systems of the National Technical University of Athens for PhD Studies (2010, 2012)
- Award by the Thomaideio Foudation of the National Technical University of Athens for the publications *Gastouniotti et al. IOP Measurement Science and Technology 2011* and *Gastouniotti et al. IEEE International Ultrasonics Symposium 2012*
- "Touramanoglou" endowment scholarship for undergraduate studies (2004)

