

# CURRICULUM VITAE

**First name** : Dionysia  
**Last name** : Aravopoulou  
**Date of birth** : 27th of March 1988 (27.03.1988)  
**Place of birth** : Maroussi Attikis  
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## Education :

- ☞ 07/2012- : PhD Student in the Dielectrics Research Group,  
Department of Physics, NTUA, Greece.  
Title: "*Investigation of molecular dynamics and phase transitions  
in hydrated composite biomaterials*"  
Supervisor: Assistant Professor Apostolos Kyritsis
- ☞ 10/2010-10/2012: MSc "Materials Science and Technology", Faculty of  
Chemical Engineering, NTUA  
General grade: 8,95/10  
*Post Graduate Thesis*  
Title: "*Hydration properties, thermal phase transitions  
and dynamics in protein-water systems*",  
Supervisor: Professor Polycarpos Pissis  
Grade: 10/10
- ☞ 09/2005-10/2010: Faculty of Applied Mathematics and Physics,  
General grade: 7,58/10  
*Graduate Thesis*  
Title: "*Experimental study of degradable polymers for  
food packaging*".  
Supervisor: Professor Polycarpos Pissis  
Grade: 10/10
- ☞ 09/2002-06/2005: 2<sup>nd</sup> Lyceum of Neo Psychiko Attikis  
Baccalaureate degree: 19,2/20

## Foreign languages:

- ☞ Greek (mother tongue)
- ☞ English ( Certificate of Proficiency Cambridge(CPE), Grade: C, Certificate of Proficiency Michigan (ECPE), Grade: Pass)
- ☞ German( Zertifikat B2, Gesamtnote: Ausreichend)

## Seminars:

- ☞ NaPolyNet and COST action FA0904 technological seminar “Polymer nanomaterials for food packaging. Characterization needs, safety and environmental issues”, 1-2 September 2010, London, United Kingdom.

## Workshops:

- ☞ German-Greek Workshop "Structural methods for the investigation of soft responsive matter 2014", 12-16 May 2014, Munich, Germany (oral presentation).

## Publications:

- ☞ Kyriakos K, Aravopoulou D, Augsbach L, Sapper J, Ottinger S, Psylla C, Aghebat Rafat A, Benitz-Montoya CA, Miasnikova A, Di Z, Laschewsky A, Muller-Buschbaum P, Kyritsis A, Papadakis CM, *Novel thermoresponsive block copolymers having different architectures- structural, mechanical, thermal and dielectric investigations*, Colloid and Polymer Science. 2014, (292), 1757-1774
- ☞ Raftopoulos KN, Jancia M, Aravopoulou D, Hebda E, Pielichowski K, Pissis P. *POSS along the Hard Segments of Polyurethane. Phase Separation and Molecular Dynamics*, Macromolecules. 2013 ; 46 (18) :7378-7386 .
- ☞ Raftopoulos KN, Jancia M, Aravopoulou D, Pielichowski K, Pissis P. *Segmental dynamics and microphase separation of polyurethane - POSS hybrids with particles as part of the hard segments of the main chain*, Modern Polymeric Materials for Environmental Applications vol 5 (2) :177 -186 , 2013

## Conferences:

- ☞ D. Aravopoulou, K. Bika, K.Kyriakos, L. Augsbach, Z. Di, A. Miasnikova, A. Laschewsky, C.M. Papadakis and A. Kyritsis, “*Novel thermoresponsive systems based on poly(methoxy diethylene glycol acrylate) copolymers*”, 8th International Conference on Broadband Dielectric Spectroscopy and its Applications, Wisla, POLAND, September 14-19, 2014 (poster presentation).
- ☞ A. Panagopoulou, D. Aravopoulou, O. Vassiliadi, A. Kyritsis, P. Pissis, "*Dynamics of protein hydration water over wide ranges of hydration level. Globular versus fibrous proteins*", 8th International Conference on Broadband Dielectric Spectroscopy and its Applications BDS2014, Wisla, Poland, September 14-19, 2014 (oral presentation)
- ☞ D. Aravopoulou, M. Souli, K. Kyriakos, A. Miasnikova, J. Adelsberger, A. Meier-Koll, AM Bivigou-Koumba, A. Laschewsky, C.M. Papadakis and A. Kyritsis, "*Neutron Scattering, Dielectric and Thermal Studies on Thermoresponsive Polymers of Complex Architecture*", XXIX Panhellenic Conference on Solid State Physics and Material Science, Athens, Greece, 22-25 September 2013 (poster presentation).
- ☞ D. Aravopoulou, A. Panagopoulou, A. Kyritsis and P. Pissis, "*Aqueous Solutions of Casein Peptone: Water Dynamics and Glass Transition Studies*", 7th International

Discussion Meeting on Relaxations in Complex Systems (IDMRCS7), Barcelona, Spain, 21 -26 July 2013 (poster presentation).

- ✎ K. Raftopoulos, M. Jancia, D. Aravopoulou, K. Pielichowski, P. Pissis, "*Polyurethane-POSS hybrids with POSS along the hard segments. A study on morphology and segmental dynamics*", 6th Polish conference on nanotechnology", Szczecin, Poland, 9-12 July 2013
- ✎ D. Aravopoulou, K. Raftopoulos, A. Kyritsis, EA Mishchuk, TV Travinskaya, Yu . V. Savelyev and P. Pissis, "*Glass Transition, Molecular Dynamics And Hydration Properties Of Polyurethane / Polysaccharide Nanocomposites*", 11th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2013), Athens, Greece, 12-15 June 2013 (poster presentation)
- ✎ K. Raftopoulos, M. Jancia, D. Aravopoulou, K. Pielichowski, P. Pissis, "*Segmental Dynamics and Microphase Separation of Polyurethane-POSS Hybrids with Particles as Part of the Hard Segments of the Main Chain*", 5th International Seminar on Modern Polymeric Materials for Environmental Applications , Cracow, Poland, 15-17 May 2013
- ✎ K. Raftopoulos, M. Jancia, D. Aravopoulou, K. Pielichowski, P. Pissis, "*Segmental Dynamics and Microphase Separation of Polyurethane-POSS Hybrids with Particles as Part of the Hard Segments of the Main Chain*", 5<sup>th</sup> International Seminar on Modern Polymeric Materials for Environmental Applications, Cracow, Poland, 15-17 May 2013
- ✎ ,D. Aravopoulou, A. Panagopoulou, A. Kyritsis, P. Pissis, "*Glass transition and water dynamics in aqueous solutions of casein peptone*", 'Frontiers in Water Biophysics, Perugia (Italy), 23-26 September 2012.
- ✎ D. Aravopoulou, A. Panagopoulou, A. Kyritsis, P. Pissis, "*Glass transition and water dynamics in aqueous solutions of casein peptone*" 4<sup>th</sup> COMPOSITUM Conference Hybrid Nanocomposites and Their Applications and Thirteen Ukrainian-Polish Symposium Theoretical and Experimental Studies of Interfacial Phenomena and Their Technological Applications, Kiev (Ukraine), 11-14 September 2012.
- ✎ D. Aravopoulou, A. Panagopoulou, A. Kyritsis, P. Pissis, "*Glass transition and water dynamics in aqueous solutions of casein peptone*" 5<sup>th</sup> Hellenic Conference of Thermal Analysis and Calorimetry 'THERMA 2012', 25-27 May, 2012, Thessaloniki, Greece.
- ✎ D. Aravopoulou, K. Raftopoulos, A. Kyritsis, E.A. Mishchuk, T.V. Travinskaya, Yu.V. Savelyev and P. Pissis. "*Molecular mobility and hydration properties of Poyurethane-Polysaccharide nanocomposites*"; Technological seminar "Polymer nanomaterials for food packaging. Characterization needs, safety and environmental issues", London, United Kingdom 2010

### Scientific visits:

- ☞ 7-9/2014 Institute of Surface Chemistry, National Academy of Sciences, Kiev, Ukraine. Within IRSES NanoBioMat european collaboration programme- partially supported by FP7 – PIRSES–GA–2013–612484 NANOBIO MAT
- ☞ 22-25/04/2013: Forschung-Neutronenquelle Heinz Maier-Leibnitz Zentrum(FRM II), Technical University of Munich, Munich, Germany, Participation in « Small-angle neutron scattering» experiments
- ☞ 7-9/2012 Institute of Surface Chemistry, National Academy of Sciences, Kiev, Ukraine. Within COMPOSITUM european collaboration programme

### Teaching experience :

- ☞ Jan-Mai 2014: Teaching assistant in “Advanced laboratory courses”(“ Differential Calorimetry”) for students of ”Materials science and technology” post graduate program, NTUA.
- ☞ Jan-Apr 2014: Teaching assistant in “Experimental techniques for nanomaterials” (“Differential Calorimetry on micro- and nano-structured materials”) for students of “Microsystems and nanodevices” post graduate program, NTUA
- ☞ Feb-Mai 2013: Teaching assistant in “Advanced laboratory courses”(“Electrical conductivity measurements- Study and characterization of materials with dielectric spectroscopy techniques”) for students of ”Materials science and technology” post graduate program, NTUA.
- ☞ Nov’12-Jan’13: Teaching assistant in “Experimental techniques for nanomaterials” (“Differential Calorimetry on micro- and nano-structured materials”) for students of “Microsystems and nanodevices” post graduate program, NTUA