

Curriculum Vitae

Fullname: **Polymeropoulos George**

Title: MSc, PhD in Materials Science Engineering

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KAUST Catalysis Center (KCC)
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Personal Information

- *Date of Birth:* September 27th 1984
- *Place of Birth:* Athens, Greece
- *Nationality:* Greek
- *Marital Status:* Single

Languages

- English: “*First Certificate in English*”, University of Cambridge, **1999**
- English: “*Certificate of Competency in English*”, University of Michigan, **1999**
- French: “*Diplome D, Etudes En Langue Francaise*”, **2001**

Studies

- *Sep. 2003-Sep. 2009:* Undergraduate Studies at the Department of Materials Science Engineering, University of Ioannina, with the degree of ‘Very Good’ (7.05/10).
- *Nov. 2009- Nov. 2011:* MSc Thesis in Chemistry and Technology of Materials, through the interdepartmental collaboration between Department of Materials Science Engineering and Department of Chemistry, University of Ioannina with the degree of ‘Excelent’ (8.55/10). MSc advisor: Professor A. Avgeropoulos.
MSc Thesis Title: ‘*Synthesis and Characterization of Linear Diblock Copolymers and/or Triblock Terpolymers consisting of PI, P2VP and/or PEG*’.

- **Nov.2011-May 2015:** PhD candidate in Polymer Science, at Polymers Laboratory, Department of Materials Science Engineering, University of Ioannina with the degree of ‘Excelent’ (10/10). PhD advisor: Professor A. Avgeropoulos.
PhD Thesis Title: ‘*Macromolecular architecture. Amphiphilic Diblock Copolymers and Triblock Terpolymers. Synthesis-Characterization-Properties*’.
- **September 2015-present:** Post-doctoral fellow, KAUST Catalysis Center (KCC), Polymer Synthesis Laboratory, King Abdullah University of Science and Technology (KAUST), with Prof. Nikolaos Hadjichristidis.

Educational Experience

2010-to date (5 semesters in total)

- Teaching Assistant
“Materials Laboratory V (Polymer Materials)” in the Polymer Materials Laboratory, Department of Materials Science Engineering, University of Ioannina.

Research Interests

- Synthesis of polymers via anionic polymerization and atom transfer radical polymerization, using high vacuum techniques. Synthesis of various types of copolymers such as linear and non-linear.
- Characterization and properties of polymers in dilute solutions via Size Exclusion Chromatography (SEC), Membrane Osmometry (MO), Vapor Pressure Osmometry (VPO), Automated Viscometry (V), Proton and Carbon Nuclear Magnetic Resonance Spectroscopy ($^1\text{H-NMR}$, $^{13}\text{C-NMR}$), Dynamic Light Scattering (DLS), Static Light Scattering (SLS).
- Morphological Characterization via Transmission Electron Microscopy (TEM), Scanning Electron Microscopy (SEM), Differential Scattering Calorimetry (DSC).

Publications

1. “*Synthesis via ATRP, Kinetics Study and Characterization (Molecular-Morphological) of 3-Arm Star Diblock Copolymers of the (PS-b-P2VP)₃ Type*”
G. Polymeropoulos, D. Moschovas, A. Kati, A. Karanastasis, S. Pelekanou, P. Christakopoulos, G. Sakellariou, A. Avgeropoulos. *J. Pol. Sci., Part A: Pol. Chem.*, **2015**, 53, 23.

Participation in National Conferences

1. **7th Panhellenic Polymers Conference** (Ioannina, Greece, September 28–October 1, 2008)
2. **26th Panhellenic Conference of Solid State Physics and Materials Science** (Department of Physics, University of Ioannina, Ioannina, Greece, September 26-29, 2010)
3. **8th Hellenic Polymers Conference** (Hersonissos, Crete, Greece, October 24-29, 2010)
Title: Synthesis and Characterization Of Linear Diblock Copolymers of poly(2-vinylpyridine) and poly(methylmethacrylate)
Polymeropoulos G., Georgopoulos P., Avgeropoulos A. (poster)
4. **9th Hellenic Polymer Conference** (Thermi, Thessaloniki, Greece, November 29-December 1, 2012)
Title: “Synthesis and Characterization of Poly(2-vinylpyridine)-b-Poly(dimethylsiloxane) Diblock Copolymers”
Polymeropoulos G. Avgeropoulos A. (poster)
5. **3rd International Conference on Industrial Technologies Research and Innovation** (Athens, Greece, April 9–April 11, 2014)
6. **10th Hellenic Polymer Society Conference** (Patra, Greece, December 4-6, 2014)
Title: “Synthesis, Molecular and Morphological Characterization of (PS-b-P2VP)₃ 3-Arm Star Diblock Copolymers”
Polymeropoulos G. Avgeropoulos A. (poster)

Participation in Research Programs

- **Funded by the European Union under the Call identifier: FP7-NMP-2009-SMALL-3 with Proposal No: CP-FP 245565-2 LAMAND (24 months, 1/7/2010-30/6/2012), title: “Large Area Molecularly Assembled Nanopatterns for Devices” and Acronym: “LAMAND”, as *Researcher*.**
- **Funded by the European Union under the Call identifier:FP7-NMP-2007-LARGE-1, with Proposal No: CP-IP 213939-1 POCO (48 months, 1/11/2008-31/10/2012), title: “Carbon Nanotube Confinement Strategies to Develop Novel Polymer Matrix Composites” and Acronym “POCO”, as *Researcher*.**
- **Co-funded by the European Union (European Regional Development Fund-ERDF) and Greek national funds through the Operational Program**

“THESSALY- MAINLAND GREECE AND EPIRUS-2007-2013” of the National Strategic Reference Framework (NSRF 2007-2013), as *Researcher*.

Visits to Foreign Institutes-Universities

- **February-April 2015:** Visiting Researcher at Polymers Synthesis Laboratory, Kaust Catalysis Center, King Abdullah University of Science & Technology. Supervisor: Professor Nikos Hadjichristidis