

Christina Pyromali

Associate Member IChemE

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I am a curiosity-driven Chemical Engineer undertaking a Ph.D as a Marie Skłodowska-Curie fellow at Foundation for Research and Technology-Hellas. My current research interest is focused on the experimental study of Double Dynamics Networks rheological properties, structure and dynamics for designing responsive materials with desired properties.

Core Skills and Projects

- **DoDyNet Project (2018 - Present):** Linear and Nonlinear Shear Behavior of Double Dynamics Networks.
- **Research Project (2017):** The Role of Energy Storage in Global Energy Interconnection: Modelling and Simulation of Electric Thermal Storage (ETS) Heater.
- **Industrial Project (2014-2015):** Design and Simulation of Amine Gas Treating and Sulfur Recovery Units. Case Studies: Industrial and Pilot Scale. In partnership with Hellenic Petroleum S.A, Aspropyrgos refinery.
- **Programming Languages and Software Engineering**

Aspen Plus	<i>Proficient</i>	Fortran 95	<i>Advance</i>
Aspen Hysys	<i>Advance</i>	Origin	<i>Proficient</i>
AutoCAD	<i>Basic</i>	MATLAB	<i>Advance</i>
Mathcad	<i>Advance</i>	COMSOL	<i>Advance</i>
Excel	<i>Proficient</i>	MS Project	<i>Advance</i>

Professional Experience

**10/2013-
11/2013**

Process Engineer Intern, Technip Hellas S.A, Athens, Greece

- Delivered calculations and analysis in hydraulic system for refineries in Greece and Romania
- Management of engineering documents
- Develop engineering diagrams (PFD's, P&ID's) in respect to safety procedures

Education

2018-Present **Ph.D candidate in Material Science and Technology Department, University of Crete**

- Shear Rheology and Light Scattering

- Teaching assistantship
 - Presentation and communication skills
- 2016-2017 MSc Advanced Chemical Engineering, University of Birmingham**
- Strong delivery and reporting skills
 - Essential background in simulation and data analysis
 - Measurement Techniques, Colloids & Rheology
- 2009 - 2015: MEng degree in Chemical Engineering, National Technical University of Athens**
- Acquiring a sound overall knowledge of leading edge engineering principles, tools and practices, with emphasis on process safety and equipment design
 - Specialisation modules
 - Advanced Process Design
 - Industrial Hygiene and Safety
 - Project Management and Decision Support

Workshops & Trainings

- 2015 Sustainability policy and practice: an executive re-training program, Athens**
- Learning and applying new approaches for incorporating “sustainable” strategies emerging from government policy and business practices.
- 2013 Future Leaders Development Program- Sponsored by KPMG and PwC, Athens**
- Workshop on leadership attributes and skills such as self-awareness, emotional intelligence, leadership styles, coaching skills and group dynamics.

Volunteering

- 2016 Engineers without Borders, UK**
- 2015- Present Communitism project, Athens, Greece:**
Reopening an abandoned building to the public - a sustainable example of community work
- Project design and management
 - Contriving ways of social enterprise start-up fund-raising
- 2013 NGO ‘Diazoma’, Athens, Greece**
Case Study: ‘Culture and sustainable development with core ancient monuments for Eretria’
- Delivered the design of a new strategic model for sustainable development
 - Contributed to the positive economic and social impact of the local community

Languages

Greek: *Mother tongue*

English: *Fluent*

German: *Beginner*