

# Matheos Giakoumi

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## EDUCATION

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<b><u>MBA Energy and Environmental Management and Economics – MEDEA</u></b>	<b>2022 – 2023</b>
<i>Department of Economics and Management &amp; ENI Scuola Mattei / University of Pavia</i>	
<b><u>MEng Natural Gas Engineering (Highest Honors)</u></b>	<b>2021 – 2023</b>
<i>Department of Civil and Environmental Engineering / Faculty of Engineering / University of Cyprus</i>	
<b><u>BS Mechanical Engineering and Materials Science (Highest Honors)</u></b>	<b>2017 – 2021</b>
<i>Department of Mechanical Engineering and Materials Science and Engineering / Faculty of Engineering and Technology / Cyprus University of Technology</i>	

## PUBLICATIONS

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1) <b>Giakoumi, M.</b> , Stephanou, PS., Kapnisis, KK., Anayiotos, A. “On the Development of Physiologically Based Toxicokinetic Models (PBTK) for Cardiovascular Implants”. <a href="#">Regulatory Toxicology and Pharmacology</a> . 2023 Sep 1;144:105489. DOI: <a href="#">10.1016/j.yrtph.2023.105489</a> . PMID: 37659713.	<b>Published</b>
2) <b>Giakoumi, M.</b> , Konstantinou, C., Ehlig-Economides, C., Papanastasiou, P. “A Screening Tool for Carbon Dioxide Injection in Gas Reservoirs with Water Influx Based on the Material Balance Approach”. <a href="#">Geomechanics for Energy and The Environment</a> . 2023 Dec 23, ISSN 2352-3808, DOI: <a href="#">10.1016/j.gete.2023.100532</a> .	<b>Published</b>
3) <b>Giakoumi, M.</b> , Stephanou, PS., Kokkinidou, D., Papastefanou, C., Anayiotos, A., Kapnisis, KK. “A Predictive Toxicokinetic Model for Nickel Leaching from Cardiovascular Stents”. <a href="#">ACS Biomaterials Science &amp; Engineering</a> .	<b>Under Minor Revisions</b>
4) <b>Giakoumi, M.</b> , Konstantinou, C., Papadimitriou, N., Panagiotou, F. C., Tsangarides, A., Iosif, G., Stasis, N., Finiris, S., Georgiou, V., Papanastasiou, P. “Mathematical Tools for Advances in the Field Development Plans (FDPs)”.	<b>Under Review</b>
5) <b>Giakoumi, M.</b> , Stephanou, PS., Kapnisis, KK., Anayiotos, A. “Analytical solutions to PBKT (or simply biokinetic) models using the matrix exponential”.	<b>In Preparation</b>

## CONFERENCE PRESENTATIONS

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1) <b>Giakoumi, M.</b> , Zanini, S., Agathokleous, R., Pontoni, F. (2024). “Beyond Traditional Analysis: A Stochastic Framework for Evaluating Energy Retrofit Investments”. Accepted (Long Abstract) for presentation at the <a href="#">Twelfth IAERE Annual Conference</a> , Pescara, Italy, 22 – 23 February 2024.
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*Detailed CV available upon request*

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2) Konstantinou, C., Papadimitriou, N., **Giakoumi, M.**, Tsangarides, A., Iosif, G., Stasis, N., Finiris, S., Georgiou, V., Panagiotou, F. C., Papanastasiou, P. (2023). “Advancements in Field Development Plans: Applicability of the Frigg field findings in the Eastern Mediterranean analogues”. [Fourth EAGE Eastern Mediterranean Workshop](#), Athens, Greece, 04 – 06 December 2023. [DOI: 10.3997/2214-4609.202330028](#).

3) Konstantinou, C., **Giakoumi, M.**, Tsangarides, A., Iosif, G., Stasis, N., Finiris, S., Georgiou, V., Panagiotou, F. C., Papadimitriou, N., Papanastasiou, P. (2023). “Lessons learned from the Frigg Field: Applicability of the findings in the Eastern Mediterranean analogues”. Presentation at the [AAPG Europe Regional Conference](#), Larnaca, Cyprus, 23 – 24 May 2023.

## RESEARCH EXPERIENCE

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<a href="#">Technologies for the Energy Transition</a> - <a href="#">Fondazione Eni Enrico Mattei (FEEM)</a>	Sep 23 – Now
<a href="#">Geomechanics Research for Energy and Environment</a> - <a href="#">University of Cyprus (UCY)</a>	Jan 23 – Now
<a href="#">Biomechanics and Living Systems Analysis</a> - <a href="#">Cyprus University of Technology (CUT)</a>	July 20 – Now
<a href="#">Materials Thermodynamics Laboratory</a> – <a href="#">Cyprus University of Technology (CUT)</a>	July 21 – Now
<a href="#">Device Technology &amp; Chemical Physics Lab</a> – <a href="#">Cyprus University of Technology (CUT)</a>	Oct – Dec 19
<a href="#">Research Unit for Nanostructured Materials Science</a> – <a href="#">Cyprus University of Technology (CUT)</a>	July – Aug 18

## TEACHING EXPERIENCE

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Instructor, <a href="#">Master on Natural Gas in Energy Transition (UCY)</a>	Sep 23 – Now
Visiting Instructor, <a href="#">Master on Environmental and Food Economics (UNIMI)</a>	Dec 23
University Tutor, <a href="#">Center of Student Development (CUT)</a>	Sep 18 – Dec 22
Mathematics Tutor for High School Students	Sep 19 – June 22

## OTHER SKILLS

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**IT/Software:** MATLAB & Simulink, Solidity, Python, C++, HTML, Petrel, OriginLab, SolidWorks.

**Languages:** Greek (Native), English (Professional), Italian (Intermediate).

**Hobbies & Interests:** Basketball, Full Stack Development, Web3 applications (developing and deploying smart contracts on the Ethereum blockchain), Exploring geopolitics of energy.