

# VASILEIOS CHARITOPOULOS, PhD, FHEA

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Lecturer (Assistant Professor)

Sargent Centre for Process Systems Engineering

Dept. of Chemical Engineering

orcid.org/0000-0001-9051-917X

University College London

## RESEARCH DOMAIN: COMPUTATIONAL OPTIMISATION & UNCERTAINTY MODELLING

### FOUNDATIONS

Stochastic programming, Robust Optimisation, Data-driven optimisation, Multi-scale modelling, Game theory

### APPLICATIONS

Digitalisation of process & energy systems, Net-zero energy & chemicals, Model-based control for smart manufacturing, Enterprise wide optimisation, Continuous Pharmaceutical Manufacturing.

## EDUCATION

**University College London (UCL)**

London, UK

PhD in Chemical Engineering

2015 – 2018

**National Technical University of Athens (NTUA)**

Athens, Greece

Diploma (5-year integrated MSc) in Chemical Engineering

2010 – 2015

## PROFESSIONAL APPOINTMENTS

**Lecturer (Assistant Professor)**

UCL, Dept. Chemical Engineering

Research Domain: Product & Process Systems Engineering

2019 –

**Research Associate**

Cambridge Judge Business School

Optimisation of decarbonisation pathways for net-zero

2018 – 2019

**Teaching Fellow**

UCL, Dept. Chemical Engineering

Process Plant Design Project

2017 – 2018

## FUNDING SECURED & DISTINCTIONS

### FELLOWSHIPS

Cambridge University Early Career Fellowship, Isaac Newton Trust (Declined) ..... 2019

### RESEARCH FUNDING

#### UKRI/EPSRC GRANTS

International Centre to Centre on Data-driven Global Optimisation [£820k] ..... 2022-2025

Artificial Intelligence powered framework for OnLine production Scheduling [£1.3m] ..... 2022-2025

Right First Time Manufacture of Pharmaceuticals [£1.6m] ..... 2021-2024

Medical Oxygen Supply Chain Design And Planning For COVID-19 Hospitals [£350k] .... 2020-2022

Hydrogen Infrastructure Uncertainty Management For Heat Decarbonisation [£1.5m] ..... 2020-2024

### SCHOLARSHIPS

PhD Scholarship, Department of Chemical Engineering, UCL ..... 2015-2018

Hellenic Petroleum S.A. Postgraduate Scholarship (declined) ..... 2015

Erasmus+ mobility Scholarship ..... 2014-2015

### AWARDS & DISTINCTIONS

ICHEME Best Young Researcher (Hon. Men.), IChemE Global Awards ..... 2022

Sir Stephen Wall award: Inspiring Role Model (Shortlisted), UCL Inclusion Awards ..... 2021

Education Success For All, UCL Provost Awards .....	2021
Exceptional Personal Tutoring (Honourable Mention), UCL Student Choice Awards .....	2021
Exceptional PhD Thesis Award in CAPE (Hon. Men.), EFCE .....	2020
Springer Thesis Award, Springer International Publishing .....	2019
Newton Prize Best for PhD thesis, Department of Chemical Engineering, UCL .....	2019
DAI Best Teaching Demonstrator Award, Department of Chemical Engineering, UCL .....	2018
Rookie Prize for academic excellence, Department of Chemical Engineering, UCL .....	2017
Best Leadership Award in teaching, Faculty of Engineering Science, UCL .....	2017
Undergraduate Researcher Award, Thomaideion fund, NTUA .....	2015

## TRAVEL GRANTS

International conference participation, Thomaideion fund, NTUA .....	2015
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## PEER – REVIEWED PUBLICATIONS (GOOGLE SCHOLAR)

### JOURNAL ARTICLES (Corresponding author in bold)

- J1. Zhou, X., Efthymiadou, M. E., Papageorgiou, L. G., & **Charitopoulos, V. M.** (2024). Data-driven robust optimisation of hydrogen infrastructure planning under demand uncertainty using a hybrid decomposition method. *Appl. Energy*, 376, 124222. doi: <https://doi.org/10.1016/j.apenergy.2024.124222>
- J2. Lee, Y., Thyagarajan, K., Pinto, J. M., Charitopoulos, V. M., & Papageorgiou, L. G. (2024). Towards efficient solutions for vehicle routing problems for oxygen supply chains. *Comput. Chem. Eng.*, 108827. doi: <https://doi.org/10.1016/j.compchemeng.2024.108827>
- J3. Bounitsis, G. L., Papageorgiou, L. G., & **Charitopoulos, V. M.** (2024). Stable optimisation-based scenario generation via game theoretic approach. *Comput. Chem. Eng.*, 185, 108646. doi: [10.1016/j.compchemeng.2024.108646](https://doi.org/10.1016/j.compchemeng.2024.108646)
- J4. Herding, R., Ross, E., Jones, W. R., Endler, E., Charitopoulos, V. M., & Papageorgiou, L. G. (2024). Risk-aware microgrid operation and participation in the day-ahead electricity market. *Adv. Appl. Energy*, 100180.
- J5. Bounitsis, G. L., & **Charitopoulos, V. M.** (2024). The value of ammonia towards integrated power and heat system decarbonisation. *Sustain. Energy Fuels*. doi: [10.1039/d4se00449c](https://doi.org/10.1039/d4se00449c)
- J6. Marousi, A., Thyagarajan, K., Pinto, J. M., Papageorgiou, L. G., & **Charitopoulos, V. M.** (2024). Game-theoretic optimisation of supply chain design with customer contracts: The case of industrial gases market. *Comput. Chem. Eng.*, 184. doi: [10.1016/j.compchemeng.2024.108625](https://doi.org/10.1016/j.compchemeng.2024.108625)
- J7. Efthymiadou, M. E., Charitopoulos, V. M., & Papageorgiou, L. G. (2024). Optimal hydrogen infrastructure planning for heat decarbonisation. *Chem. Eng. Res. Des.*, 204, 121-136. doi: [10.1016/j.cherd.2024.02.028](https://doi.org/10.1016/j.cherd.2024.02.028)
- J8. **Charitopoulos, V. M.**, Fajardy, M., Chyong, C. K., & Reiner, D. M. (2023). The impact of 100% electrification of domestic heat in Great Britain. *iScience*, 26(11). doi: [10.1016/j.isci.2023.108239](https://doi.org/10.1016/j.isci.2023.108239)
- J9. Herding, R., Ross, E., Jones, W. R., Charitopoulos, V. M., & Papageorgiou, L. G. (2023). Stochastic programming approach for optimal day-ahead market bidding curves of a microgrid. *Appl. Energy*, 336. doi: [10.1016/j.apenergy.2023.120847](https://doi.org/10.1016/j.apenergy.2023.120847)
- J10. Marousi, A., & **Charitopoulos, V. M.** (2023). Game theoretic optimisation in process and energy systems engineering: A review. *Frontiers in Chemical Engineering*, 5. doi: [10.3389/fceng.2023.1130568](https://doi.org/10.3389/fceng.2023.1130568)

- J11. Bounitsis, G. L., Papageorgiou, L. G., & **Charitopoulos, V. M.** (2022). Data-driven scenario generation for two-stage stochastic programming. *Chem. Eng. Res. Des.*, 187, 206-224. doi:[10.1016/j.cherd.2022.08.014](https://doi.org/10.1016/j.cherd.2022.08.014)
- J12. Lee, Y., Charitopoulos, V. M., Thyagarajan, K., Morris, I., Pinto, J. M., & Papageorgiou, L. G. (2022). Integrated production and inventory routing planning of oxygen supply chains. *Chem. Eng. Res. Des.*, 186, 97-111. doi:[10.1016/j.cherd.2022.07.027](https://doi.org/10.1016/j.cherd.2022.07.027)
- J13. Jiang, S. -L., Papageorgiou, L. G., Bogle, I. D. L., & **Charitopoulos, V. M.** (2022). Investigating the Trade-Off between Design and Operational Flexibility in Continuous Manufacturing of Pharmaceutical Tablets: A Case Study of the Fluid Bed Dryer. *Processes*, 10(3). doi:[10.3390/pr10030454](https://doi.org/10.3390/pr10030454)
- J14. Charitopoulos, V. M., Papageorgiou, L. G., & Dua, V. (2021). Multi set-point explicit model predictive control for nonlinear process systems. *Processes*, 9(7). doi:[10.3390/pr9071156](https://doi.org/10.3390/pr9071156)
- J15. Charitopoulos, V. M., Dua, V., Pinto, J. M., & Papageorgiou, L. G. (2020). A game-theoretic optimisation approach to fair customer allocation in oligopolies. *Optim. Eng.* doi:[10.1007/s11081-019-09482-x](https://doi.org/10.1007/s11081-019-09482-x)
- J16. Charitopoulos, V. M., Papageorgiou, L. G., & Dua, V. (2019). Closed-loop integration of planning, scheduling and multi-parametric nonlinear control. *Comput. Chem. Eng.* doi:[10.1016/j.compchemeng.2018.06.021](https://doi.org/10.1016/j.compchemeng.2018.06.021)
- J17. Charitopoulos, V. M., Dua, V., & Papageorgiou, L. G. (2017). Traveling Salesman Problem-Based Integration of Planning, Scheduling, and Optimal Control for Continuous Processes. *Ind. Eng. Chem. Res.*, doi:[10.1021/acs.iecr.7b01122](https://doi.org/10.1021/acs.iecr.7b01122)
- J18. Charitopoulos, V. M., Papageorgiou, L. G., & Dua, V. (2018). Multi-parametric mixed integer linear programming under global uncertainty. *Comput. Chem. Eng.* doi:[10.1016/j.compchemeng.2018.04.015](https://doi.org/10.1016/j.compchemeng.2018.04.015)
- J19. Charitopoulos, V. M., Papageorgiou, L. G., & Dua, V. (2017). Multi-parametric linear programming under global uncertainty. *AIChE J.* doi:[10.1002/aic.15755](https://doi.org/10.1002/aic.15755)
- J20. Charitopoulos, V. M., Papageorgiou, L. G., & Dua, V. (2017). Nonlinear Model-Based Process Operation under Uncertainty Using Exact Parametric Programming. *Engineering*. doi:[10.1016/J.ENG.2017.02.008](https://doi.org/10.1016/J.ENG.2017.02.008)
- J21. Charitopoulos, V., & Dua, V. (2016). Explicit Model Predictive Control of Hybrid Systems using Multi-parametric Mixed Integer Polynomial Programming, *AIChE J.*, doi:[10.1002/aic.15396](https://doi.org/10.1002/aic.15396)
- J22. Charitopoulos, V. M., & Dua, V. (2016). A unified framework for model-based multi-objective linear process and energy optimisation under uncertainty. *Appl. Energy*, 186, 539-548. doi:[10.1016/j.apenergy.2016.05.082](https://doi.org/10.1016/j.apenergy.2016.05.082)

#### CONFERENCE PROCEEDINGS (Corresponding author in bold)\_\_\_\_\_

- CP1. Johnn, S. N., & **Charitopoulos, V. M.** (2024). A Reinforcement Learning Framework for Online Batch Process Scheduling. In *Computer Aided Chemical Engineering* (Vol. 53, pp. 1783-1788). Elsevier. doi: <https://doi.org/10.1016/B978-0-443-28824-1.50298-2>
- CP2. Nikkhah, H., Charitopoulos, V. M., Avraamidou, S., & Beykal, B. (2024). Bilevel optimization of mixed-integer nonlinear integrated planning and scheduling problems using the DOMINO framework. In *Computer Aided Chemical Engineering* (Vol. 53, pp. 1909-1914). Elsevier. doi: <https://doi.org/10.1016/B978-0-443-28824-1.50319-7>

- CP3. Zhou, X., Efthymiadou, M. E., Papageorgiou, L. G., & **Charitopoulos, V. M.** (2024). Data-driven robust hydrogen infrastructure planning under demand uncertainty using a hierarchical-based decomposition method. In *Comput. Aid. Chem. Eng.* (Vol. 53, pp. 3397-3402). doi:[10.1016/B978-0-443-28824-1.50567-6](https://doi.org/10.1016/B978-0-443-28824-1.50567-6)
- CP4. Efthymiadou, M. E., Charitopoulos, V. M., & Papageorgiou, L. G. (2024). Hydrogen strategic planning for heat decarbonisation under uncertainty. In *Comput. Aid. Chem. Eng.* (Vol. 53, pp. 2257-2262). doi:[10.1016/B978-0-443-28824-1.50377-X](https://doi.org/10.1016/B978-0-443-28824-1.50377-X)
- CP5. Meng, Q., Bogle, I. D. L., & **Charitopoulos, V. M.** (2024). Data-Driven Chance-Constrained Optimization for Minimizing the Influence of Material Uncertainty on Product Quality. In *Comput. Aid. Chem. Eng.* (Vol. 53, pp. 1579-1584). doi:[10.1016/B978-0-443-28824-1.50264-7](https://doi.org/10.1016/B978-0-443-28824-1.50264-7)
- CP6. Bounitsis, G. L., Papageorgiou, L. G., & **Charitopoulos, V. M.** (2023). Stable two-stage scenario generation via game-theoretic optimisation. In *Comput. Aid. Chem. Eng.* (Vol. 52, pp. 739-744). doi:[10.1016/B978-0-443-15274-0.50118-9](https://doi.org/10.1016/B978-0-443-15274-0.50118-9)
- CP7. Bounitsis, G. L., & **Charitopoulos, V. M.** (2023). Optimal capacity planning integrating ammonia storage for power and heat decarbonisation. In *Comput. Aid. Chem. Eng.* (Vol. 52, pp. 3049-3054). doi:[10.1016/B978-0-443-15274-0.50486-8](https://doi.org/10.1016/B978-0-443-15274-0.50486-8)
- CP8. Marousi, A., Pinto, J. M., Papageorgiou, L. G., & **Charitopoulos, V. M.** (2023). Multi-period optimisation of oligopolies with contracts: A cooperative approach to customer fairness. In *Comput. Aid. Chem. Eng.* (Vol. 52, pp. 1603-1608). doi:[10.1016/B978-0-443-15274-0.50255-9](https://doi.org/10.1016/B978-0-443-15274-0.50255-9)
- CP9. Efthymiadou, M. E., Charitopoulos, V. M., & Papageorgiou, L. G. (2023). Hydrogen infrastructure planning for heat decarbonisation in Great Britain. In *Comput. Aid. Chem. Eng.* (Vol. 52, pp. 3025-3030). doi:[10.1016/B978-0-443-15274-0.50482-0](https://doi.org/10.1016/B978-0-443-15274-0.50482-0)
- CP10. Bounitsis, G. L., Lee, Y., Thyagarajan, K., Pinto, J. M., Papageorgiou, L. G., & **Charitopoulos, V. M.** (2023). Distribution planning of medical oxygen supply chains under uncertainty. In *Comput. Aid. Chem. Eng.* (Vol. 52, pp. 3387-3392). doi:[10.1016/B978-0-443-15274-0.50540-0](https://doi.org/10.1016/B978-0-443-15274-0.50540-0)
- CP11. Vaes, J., & **Charitopoulos, V. M.** (2023). A data-driven uncertainty modelling and reduction approach for energy optimisation problems. In *Comput. Aid. Chem. Eng.* (Vol. 52, pp. 1161-1167). doi:[10.1016/B978-0-443-15274-0.50185-2](https://doi.org/10.1016/B978-0-443-15274-0.50185-2)
- CP12. Bounitsis, G. L., Papageorgiou, L. G., & **Charitopoulos, V. M.** (2022). Data-Driven Scenario Generation for Two-Stage Stochastic Programming. In *Comput. Aid. Chem. Eng.* (Vol. 49, pp. 1231-1236). doi:[10.1016/B978-0-323-85159-6.50205-0](https://doi.org/10.1016/B978-0-323-85159-6.50205-0)
- CP13. Fajardy, M., Charitopoulos, V. M., & Reiner, D. (2020). The Value of Bioenergy with CO<sub>2</sub> Capture and Storage in an Electrified UK Heat Sector. In *Comput. Aid. Chem. Eng.* (Vol. 48, pp. 1573-1578). doi:[10.1016/B978-0-12-823377-1.50263-9](https://doi.org/10.1016/B978-0-12-823377-1.50263-9)
- CP14. Charitopoulos, V. M., Chyong, C. K., & Reiner, D. (2020). Heat Decarbonisation Pathways in the UK: Modelling and Policy Insights. In *Comput. Aid. Chem. Eng.* (Vol. 48, pp. 1465-1470). doi:[10.1016/B978-0-12-823377-1.50245-7](https://doi.org/10.1016/B978-0-12-823377-1.50245-7)
- CP15. Charitopoulos, V. M., Aguirre, A. M., Papageorgiou, L. G., & Dua, V. (2018). Uncertainty aware integration of planning, scheduling and multi-parametric control. In *Comput. Aid. Chem. Eng.* (Vol. 44, pp. 1171-1176). doi:[10.1016/B978-0-444-64241-7.50190-7](https://doi.org/10.1016/B978-0-444-64241-7.50190-7)
- CP16. Charitopoulos, V. M., Dua, V., & Papageorgiou, L. G. (2017). Closed loop integration of planning, scheduling and control via exact multi-parametric nonlinear programming. In

## RESEARCH MONOGRAPHS

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- B1. Charitopoulos, V.M. (2020). Uncertainty-aware integration of control with process operations and multi-parametric programming under global uncertainty (Series ISSN: 2190-5053). Springer International Publishing.

## INVITED TALKS

- ST1. **Charitopoulos V.M.** "Sustainable industries", HIAS Symposium on Sustainability, Hellenic Institute of Advanced Studies, July 4, 2024
- ST2. **Charitopoulos V.M.** "Machine learning and optimisation-based risk averse methods with applications to energy and process design", University of Cambridge, July 17, 2023
- ST3. **Charitopoulos V.M.** "Optimisation-based approaches to fairness", Technical University of Crete, March 20, 2023
- ST4. **Charitopoulos V.M.** "Data-driven stochastic optimisation of chemical process systems", Data Science Group, Solvay plc., June 16, 2022
- ST5. **Charitopoulos, V.M.** "Integrated Systems Optimisation", BP Technical Discussion Day, Sargent Centre for Process Systems Engineering, March 23, 2021.
- ST6. **Charitopoulos V.M.**, "Enterprise-Wide Optimisation of Process Systems: A digital twins paradigm", Department of Chemical Engineering and Materials Science Seminar Series, University of Minnesota, February 12, 2021.
- ST7. **Charitopoulos V.M.**, "Towards the Development of Operational Digital Twins for Autonomous Manufacturing", CPSE Summer Webinar Series, Sargent Centre for Process Systems Engineering, September 30, 2020.
- ST8. **Charitopoulos V.M.** "Uncertainty impacts on hydrogen-led heat decarbonisation pathways: Challenges & opportunities", H+C Decarbonisation of Heating and Cooling Knowledge Sharing Day, September 7, 2020.
- ST9. **Charitopoulos V.M.**, Fajardy M., Chyong C.K., Reiner, D. "The role of negative emissions towards heat decarbonisation in GB", OFGEM Seminar Series, September 4, 2019.
- ST10. **Charitopoulos V.M.** "The case of 100% electrification of domestic heat in Great Britain", UKCCSRC Summer Webinar Series, August 6, 2020.
- ST11. **Charitopoulos V.M.** "Integrating control with process operations: Process resiliency and digital transformation for the process industry", Departmental Seminar Series, School of Chemical Engineering, National Technical University of Athens, December 10, 2019.
- ST12. **Charitopoulos V.M.**, Chyong C.K., Reiner D. "Impacts on energy systems planning and reliability from joint decarbonisation of heat & electricity in Great Britain", National Grid ESO Meeting, October 15, 2019.
- ST13. **Charitopoulos V.M.**, Chyong C.K., Reiner D. "Scenario-based exploration of decarbonisation pathways for the UK heat sector", UKCCSRC Autumn Conference 2019, September 5, 2019.
- ST14. **Charitopoulos V.M.**, Chyong C.K., Reiner D. "Modelling & optimisation of decarbonisation pathways for the UK heat sector", EPRG & CEEPR International Energy Policy Conference, September 3, 2019.

- ST15. **Charitopoulos V.M.** "Advances in optimisation under uncertainty for integrated process operations", Departmental Seminar Series, Department of Chemical Engineering, University of Cambridge, February 23, 2018.

## RESEARCH MENTORING – POSTDOCTORAL RESEARCH ASSOCIATES

### CURRENT RESEARCHERS

#### **Dr Syu – Ning Johnn**

Research area: Reinforcement Learning for process scheduling 2023 -

Funding: EPSRC – AIOLOS project

#### **Dr Xu Zhou**

Research area: Data-driven energy systems decarbonisation under uncertain 2022 -

Funding: EPSRC – HUMAN project

#### **Dr Qingbo Meng**

Research area: AI for continuous pharmaceutical manufacturing 2022 -

Funding: EPSRC/NSF – RiftMaP project

### PAST RESEARCHERS

#### **Dr Julien Vaes**

Research area: Robust optimisation approaches to energy systems 2021 - 22  
optimisation

Funding: EPSRC – HUMAN project

Now Data Scientist at UBS Switzerland

## RESEARCH MENTORING – PHD CANDIDATES

### CURRENT STUDENTS

#### **Asimina Marousi**

Thesis: Algorithms for cooperative nonconvex optimization under uncertainty  
Awarded UCL Rookie Prize for Best MPhil Thesis (2023); Best Poster presentation 2021 -

UCL Chemical Engineering Annual Industrial Advisory Board Meeting (2023);

FOCAPO/CPC travel grant (2022), SCPSE conference travel grant (2024)

#### **Margarita Efthymiadou** (Co-supervised with Prof. Lazaros Papageorgiou)

Thesis: Optimisation approaches to hydrogen-led decarbonisation pathways for 2021 -  
heat & power in the UK.

#### **Consuelo Vega Zambrano**

Thesis: Digital control strategies for continuous pharmaceutical manufacturing  
Awarded PRONABEC Scholarship (2022); "Mini-APACT" scholarship for 2022 -

presenting at AstraZeneca's Advances In Process Analytics And Control

Technologies 2024 conference (2024), 2<sup>nd</sup> place for best oral presentation at

PSEResearchDayUK24 conference (2024).

#### **Reka Keresztes**

Thesis: Machine learning-based process scheduling of chemical industries 2024 -

Awarded UCL Doctoral Training Partnerships Scholarship (2024)

#### **Efthymis Charalambous**

Thesis: Digital twins for waste-to-hydrogen process 2024 -

Awarded UCL Doctoral Training Partnerships Scholarship (2024)

#### **Yuhui Yin**

Thesis: Quantum optimisation approaches to digital manufacturing 2024 -

Awarded UCL-CSC Research Excellence Scholarship (2024)



## GRADUATED DOCTORAL STUDENTS

### Dr George Bounitsis

2020 -24

Thesis: Advances in data-driven stochastic programming with applications to energy systems planning

*Awarded SCPSE conference travel grant (2023, 2024);*

*CA Floudas Junior Award for Mathematical Optimization (2023)*

**Now** Senior Software Engineering at Aurora Energy Research

### Dr Robert Herding (Co-supervised with Prof. Lazaros Papageorgiou)

Thesis: Optimal Operation of Energy Microgrids under Uncertainty

2019 - 23

Funded by Shell Plc

**Now** Optimisation Engineer at Shell Global Solutions International

## PHD THESIS EXAMINATIONS

- TC1. Dr Dan Li, Thesis: Advanced intelligent and machine learning solution approaches for chemical production scheduling of multipurpose batch plants, University of Manchester, 02/2024
- TC2. Dr Changgun Lee, Thesis: Strategic Design and Planning of Reverse Supply Chains, Imperial College London, 03/2023
- TC3. Dr Deemah Aljuhani, Thesis: Modelling and Optimisation of Space Allocation and layout Problems, University College London, 07/2021
- TC4. Dr Katerina Tsatse, Thesis: Methodologies for the optimisation, control and consideration of uncertainty of reactive distillation, University College London, 04/2021

## TEACHING

- CENG0010: Separation Processes I (Y2 module; 15 credits)** UCL, 2020 -  
Module lead
- CENG0053: Process Plant Design Project (Y3 module; 30 credits)** UCL, 2020 -  
Separations' lead during UD I & II
- CENG0023: Advanced Process Optimisation (M-level; 15 credits)** UCL, 2020 -  
Lecturer on Optimization under uncertainty (2021-) & Module lead for 2020-21;
- ENGF0003: Mathematical Modelling & Analysis I (Y1 module; 15 credits)** UCL, 2019 -  
Departmental workshops' lead
- CENG0053: Process Engineering Modelling & Design (M-level; 15 credits)** UCL, 2019  
Lecturer on high-index DAE systems
- CENG0053: Process Plant Design Project (Y3 module; 30 credits)** UCL, 2018-19  
Lecturer & Representative during Appraise & Select phases

## PROFESSIONAL SERVICE

- Organiser, 2024 Annual Technical Meeting of CAPE SIG, IChemE 2024 -
- Member of Management Team, Computer Aided Process Engineering Special Interest Group (CAPE SIG), IChemE 2021 -
- International Scientific Committee Member, [EFCE/AIDIC E2DT Conference](#) 2021-22
- Organising Committee Member , IChemE ChemEng Day UK 2022 2021-22
- Member of Management Team, Sargent Centre for Process Systems Engineering 2020 - 22
- Member, Early Careers Forum on CCUS, HM's Dept. of Business, Energy & Industrial Strategy 2020 - 22

President, Postgraduate Research Society, Department of Chemical Engineering UCL	2017 -18
Organiser, PhD Seminar Series, Department of Chemical Engineering, UCL	2016 - 17
Facilitator, Advanced optimisation seminar series, Imperial College London	2016
Facilitator, Panhellenic Conference of Chemical Engineering, NTUA	2013

#### AFFILIATIONS

Fellow, Higher Academy of Education (FHEA)	UK HEA, 2022 -
Associate Researcher, Energy Policy Research Group, Judge Business School	EPRG, 2019 -
Senior Member, American Institute of Chemical Engineering	AIChE, 2019 -
Member, Sargent Centre for Process Systems Engineering	CPSE, 2019 -
Member, UK Carbon Capture & Storage Research Community	UKCCSRC, 2018-22
Associate Member (AMIChemE), Institute of Chemical Engineers	IChemE, 2016 -