Department of Chemical Engineering | Imperial College London							
Full name	**Research group**	**Affiliation**	**Talk title**	**Poster presentation title**	**Date**	**Time (EDT)**	**Location e.g. room/space**
Ronny Pini	Ronny Pini	Academic		Imperial College London: Your future self is waiting for you	04-Nov	11:45AM	Regency Ballroom T (Convention Level)
Adam Ward	Ronny Pini	Research Assistant	Design of adsorption-based direct air capture units towards negative emissions		05-Nov	4:30pm	Bayhill 24
Konstantinos Flevaris	Kontoravdi Lab	PhD	Extracting the Biomarker Potential of N-Glycans with a Machine Learning Framework Applied to Colorectal Cancer		05-Nov	3:30 PM - 3:48 PM	Celebration 4
Konstantinos Flevaris	Kontoravdi Lab	PhD	Development of a Computational Framework Incorporating Parameter Uncertainty for the Dynamic Simulation of Protein N-Linked Glycosylation to Guide Glycoengineering		05-Nov	5:00PM - 5:18PM	Celebration 1
Lew Jin Hau	Luckham	PhD	Atomic Force Microscopy of Hydrolysed Polyacrylamide Adsorption Onto Calcium Carbonate		05-Nov	4:15PM - 4:30PM	Plaza International Ballroom K (Convention Level),
Paulina Quintanilla	Papathanasiou lab	Postdoc		Modeling, Control and Optimization	05-Nov	1:00PM -3:00PM	Regency Ballroom R/S (Convention Level)
Talia Shmool	Department of Chemical Engineering	Imperial College Research Fellow		Rational Design and Engineering Effective and Stable Targeted Delivery Systems and Formulations for Therapeutics	05-Nov	1:00PM - 3:00PM	Regency Ballroom R/S (Convention Level)
Andrius Patapas	Matar/Petit	PhD	Scaling-up, Scaling-out, and on-Line Monitoring of Graphene Production		06-Nov	1:30PM - 1:45PM	Celebration 13
Enshu Liang	Heng group	PhD	Crystallisation Process Design for the Separation of Dipeptides Based on Alanine and Glycine with Antisolvent Addition		06-Nov	3:51PM - 4:09PM	Manatee Spring II
Foteini Michalopoulou	Papathanasiou Lab	PhD	From High-Fidelity To Data-Driven Modelling In Separation Systems: An Application To Chromatographic Separations		06-Nov	3:51PM	Bayhill 23 (Lobby Level)

Hue, Keat Yung	Molecular Systems Engineering	PhD		Evaluation of Polymer-Calcite Interfacial Strength through a Uniaxial Tensile Simulation Study	06-Nov	3:30PM - 5:00PM	Regency Ballroom R/S
Isha Bade	Heng group	PhD	'Regeneration' Phenomenon Observed in Pharmaceutical Crystals Post Breakage – a Case Study on Paracetamol and the Effect of Growth Solvents		06-Nov	2:42PM - 3:00PM	Manatee Spring II (Lobby Level)
Karen Polizzi	Polizzi Lab	PI	Expression of Vaccine Targets in a Cell-Free Protein Synthesis System Based on Pichia Pastoris		06-Nov	8:00AM	Celebration 1 (Convention Level)
Lucy Victoria Barton	Complex Porous Media and Petit Group	PhD	Impact of Design and Operational Parameters on the Performance of a Rotary Adsorber for Carbon Capture		06-Nov	3.48PM - 4.06 PM	Barrel Spring II
Luxi Yu	Cleo Kontoravdi Group & Antonio del Rio Chanona Group	PhD	Towards quality control of biotherapeutic products through soft sensing of intracellular states		06-Nov	9:24AM	Celebration 6
Niki Triantafyllou	Maria Papathanasiou	PhD	Using Machine Learning to Decompose Large-Scale MILP Supply Chain Models		06-Nov	1:58PM - 2:20PM	Bayhill 25
Paulina Quintanilla	Advanced Mineral Processing Research Group	Postdoc	Advances in Dynamic Modelling for Model Predictive Control for Froth Flotation		06-Nov	12:30PM -12:48PM	Bayhill 26 (Lobby Level)
Qiaoyun Chen	Thermophysics (Martin Trusler's) group	PhD	Solubility of Light Gases in Water and NaCl Brines at High Pressures		06-Nov	9:00AM - 9:20AM	Orlando Ballroom M
Riley Latcham	Thermophysics Group	PhD	Phase Behaviour of Isobutane + CO_2 and Isobutane + H_2 at Temperatures between 190 and 400 K and at Pressures up to		06-Nov	8:00AM - 8:20 AM	Orlando Ballroom M
Simon Daniel	Prof. Nilay Shah and Prof. Cleo Kontoravdi	PhD	Towards Continuous, Transferable and Sustainable mRNA Vaccine Manufacturing Processes		06-Nov	2:36PM - 2:57PM	Celebration 7
Talia Shmool	Department of Chemical Engineering	Imperial College Research Fellow	Rational Design Approaches and Engineering Effective and Stable Targeted Delivery Systems and Formulations for RNA Therapeutics		06-Nov	2:00PM - 2:18PM	Celebration 15
Abdullah Bahamdan	Optimization & Machine Learning Group at the Sargent Center for Process Systems Engineering	PhD	A Novel Data-Driven Approach to Reducing the Environmental Footprint of an Integrated Gas-Oil Separation Network		07-Nov	9:20AM - 9:40 AM	Silver Spring I/II

Alex Durkin	Autonomous Industrial Systems Lab - Mehmet Mercangoz	Postdoc		61aa - Adaptive Real-Time Exploration and Optimization for Safety-Critical Industrial Systems: The Arteo Algorithm	07-Nov	330PM - 5:00PM	Regency Ballroom R/S (Convention Level)
Alex Durkin	Autonomous Industrial Systems Lab - Mehmet Mercangoz	Post doc		61aa - Adaptive Real-Time Exploration and Optimization for Safety-Critical Industrial Systems: The Arteo Algorithm	07-Nov	3:30PM - 5:00PM	Regency Ballroom R/S (Convention Level)
Andrea Bernardi	Omega (Benoit Chachuat)	Research Fellow	Sustainable Aviation Fuel Production: An Enviro-Economic Assessment of Direct CO2 Hydrogenation		07-Nov	1:20PM - 1:45PM	Columbia 36 (Mezzanine Level, Hyatt Regency Orlando)
Damien van de Berg	OptiML	PhD	Hierarchical Planning-Scheduling-Control - Optimality Surrogates upon Optimality Surrogates		07-Nov	2:00PM - 2:18PM	Bayhill 26
Fuyue Liang	Matar Fluid Group	PhD	Machine Learning for prediction and optimization in surfactant-laden liquid dispersions		07-Nov	9:00AM-9:30AM	Bayhill 31
Hassan Azzan	Ronny Pini	PhD	Kinetics of CO2 sorption on binderless pellets of Y-type zeolites		07-Nov	9:20AM	Manatee Spring 1
James Morrissey	Cleo Kontoravdi	PhD	Genome Scale Models As a Data Integration Centre for CHO Cell Process Optimisation		07-Nov	1:06 PM	Celebration 1 (Convention Level)
Juan Pablo Valdes	Matar fluids Group	PhD	Direct Numerical Simulation of an Alternative Smx Element Orientation for Laminar Liquid-Liquid Mixing		07-Nov	8AM	Bayhill 31
Mariana Isabel Pereira Monteiro	Kontoravdi Lab	PhD	Bioprocess Control Using Stoichiometric Models of Metabolism		07-Nov	5:24PM - 5:43 PM	Bayhill 32
Mariana Isabel Pereira Monteiro	Kontoravdi Lab	PhD		Reinforcement Learning Based Control of Fed-Batch Production Reactor	07-Nov	3:30PM - 5:00 PM	Regency Ballroom R/S

Miriam Sarkis	Papathanasiou Lab	PhD		A framework for resilient multi-product supply chains: an application to healthcare	07-Nov	3:30PM - 5:00PM	Regency Ballroom R/S
Muhammad Ariif Hafiizhullah Kamrul Bahrin	Molecular Systems Engineering (MSE) Group	PhD	Prediction of the Interfacial Tension of Sugar-Based Surfactants through Molecular Modelling		07-Nov	3.30PM - 3.45PM	Orlando Ballroom N
Niki Triantafyllou	Maria Papathanasiou	PhD	Towards Scalable and Cost-Effective Plasmid DNA Manufacturing		07-Nov	4:27PM - 4:46PM	Bayhill 32
Rafael Boni	Centre for Process Systems Engineering - Department of Chemical Engineering	PhD | visiting student	Hybrid Modeling to Simulate the Lignocellulosic Fermentation Processes Facing the Inhibitors' Synergistic Effect and Mixed Carbon Sources		07-Nov	2:00PM - 2:18PM	Celebration 4 (Convention level)
Rongjun Chen	Biomaterials and Nanomedicin	Academic	**Invited Talk:** Formulation of RNA with Novel Virus-Mimicking Lipid Nanoparticles for Enhanced Delivery and Long-Term Thermostability		07-Nov	9:48AM - 10:28AM	Celebration 4 (Convention level)
Simon Daniel	Prof. Nilay Shah and Prof. Cleo Kontoravdi	PhD	Mechanistic Process Modeling of In Vitro Transcription to Enable RNA Production Platforms		07-Nov	9:45AM - 10:06AM	Celebration 7
Steven Sachio	Papathansiou Lab	PhD	Design Space Analysis: Flexibility Quantification for Carbon Capture Adsorbent Screening		07-Nov	8:18Am - 8:36 AM	Blue Spring I/II (Convention Level)
Steven Sachio	Papathanasiou Lab	PhD		Computational Tools for Process Design	07-Nov	1:00PM - 3:00 PM	Regency Ballroom R/S
Tanuj Karia	Sargent Centre for Process Systems Engineering	PhD	Deciding Which Equality Constraints to Eliminate in Mixed-Integer Nonlinear Programs for Deterministic Global Optimization		07-Nov	9:00AM	Bayhill 24 (Lobby Level)
Abdullah Baubaid	Fuel conversion	PhD	Coupled Bio-Oil Hydrodeoxygenation and Alkane Dehydrogenation System for Bio-based Products		08-Nov	9:24PM - 9:36PM	Bayhill 18
Carsten Wedler	Ronny Pini	Postdoc	Adsorption Equilibria of Unary Gases and Binary Mixtures on Zeolitic Materials at Elevated Pressure		08-Nov	9:31AM	Barrel Spring II (Lobby Level)

Damien van de Berg	OptiML	PhD	Hierarchical Planning-Scheduling-Control - Is Derivative-Free Optimization All You Need?		08-Nov	3:30PM - 3:55PM	Bayhill 23
Enshu Liang	Heng group	PhD	Solubility Measurements of Dipeptides at Different Temperature and Solution Environment: An Investigation on Peptides Sequence Effect on Solubilities		08-Nov	3:30PM - 3:47PM	Plaza International Ballroom I
Gustavo Chaparro	Molecular Systems Engineering	PhD	Development of thermodynamically-consistent machine-learning Equations of State: Application to the Mie fluid		08-Nov	12:30PM - 12:48PM	Plaza International Ballroom I
Haiting Wang	OptiML	PhD	A Dynamic Hybrid Modeling Framework for Bioprocesses		08-Nov	1:46PM - 2:05PM	Bayhill 32
Hamish Mitchell	Heng group	PhD	Investigation into the Applicability of “Conventional” Kinetic Models for the Process Modelling of Protein Crystallisation		08-Nov	8:57 AM - 9:15 AM	Manatee Spring II
Hamish Mitchell	Heng group	PhD	Experimental and Computational Insights into the Homogeneous and Heterogeneous Crystallisation Behaviour of Glycine Homopeptides		08-Nov	10:09AM - 10:27AM	Manatee Spring II
Isha Bade	Heng group	PhD	Effect of Agitation during Cooling Crystallization on the Unique Regeneration Phenomenon Observed in Paracetamol Crystals Post Breakage		08-Nov	2:03PM - 2:21PM	Manatee Spring II (Lobby Level)
Jason Hallett		Academic	Biorefining with Low-Cost Ionic Liquids: Chemicals, Fuels and Economics		08-Nov	2:30PM - 2:45PM	Bayhill 18 (Lobby level)
Kam Yenh Hua	Daryl Williams	PhD	Early Formulation Screening to Predict Long-Term Stability in Novel Antibody Products		08-Nov	17:20	Celebration 8
Kleio Aikaterini Zervidi	Martin Trusler, Camille Petit and Ronny Pini	PhD	A Hybrid System for Capturing CO2 Directly from the Air		08-Nov-23	3:48PM - 4:06PM	Barrel Spring II Session: Adsorption for Negative Emissions

Miriam Sarkis	Papathanasiou Lab	PhD	Towards 3-fold sustainability in biopharmaceutical supply chains		08-Nov	12:49PM - 1:08PM	Bayhill 32
Niki Triantafyllou	Maria Papathanasiou	PhD	Combined Bayesian Optimization and Global Sensitivity Analysis for the Optimization of Simulation-Based Flowsheets		08-Nov	12:30PM - 12:52PM	Bayhill 26
Paulina Quintanilla	Papathanasiou lab	Postdoc	A Design Space Analysis for Quantifying Process Flexibility Under Disturbances: An Application to Froth Flotation		08-Nov	2:10PM -2:30PM	Bayhill 23 (Lobby Level)
Pin Lim	Marcos Millan	PhD		Tandem CO2-assisted Propane dehydrogenation and Propylene hydroformylation for production of Butanal	08-Nov	3:30PM - 5:00PM	Regency Ballroom R/S (Convention Level)
Tom Savage	Antonio del Rio Chanona	PhD	A Data-Driven Framework for the Design of Reactor Simulations: Exploiting Multiple Continuous Fidelities		08-Nov	4:45pm	Bayhill 23, (Lobby level)
Zhennan Zhu	Mehmet Mercangoz's group	Postdoc	Pumped Thermal Electricity Storage: Modelling of a Reversible Recuperative sCO2 Pumped Brayton Cycle for Variable Power Operation		08-Nov	1:10PM - 1:30PM	Celebration 11
Abdullah Bahamdan	Optimization & Machine Learning Group at the Sargent Center for Process Systems Engineering	PhD	Surrogate Based Mixed Integer Linear Programming Model for Decarbonization of an Integrated Gas-Oil Separation Network		09-Nov	10:06AM - 10:24AM	Bayhill 23
Adam Ward	Ronny Pini	Research Assistant	Modelling and Optimization of Layered Bed Adsorbers for Post-Combustion CO2 Capture		09-Nov	4:54pm	Manatee Spring I
Akhil Ahmed	Autonomous Industrial Systems Lab (AISL) and Optimization and Machine Learning for Process Systems Engineering Group (OPTIML PSE)	PhD	ARRTOC: Adversarially Robust Real-Time Optimization and Control		09-Nov	8:54AM - 9:12AM	Bayhill 25

David Büchner	Complex Porous Media Laboratory	PhD	Unary and Binary CO2/N2 Dynamic Column Breakthrough Experiments Augmented By X-Ray Computed Tomography		09-Nov	10:08AM - 10:24AM	Barrel Spring II (Lobby Level)
Ethan Errington	Heng group	PhD	Preparation of Silica by Sol-Gel Methods: How sustainable are current research methods?		09-Nov	2:30 PM - 2:50PM	Plaza International Ballroom J
George Ebri	Reaction Engineering and Catalytic Technology	PhD	Optimization of Synthesis of Cu2O/Cu Photocatalyst Using Batch and Flow Process to Improve Photocatalytic Activity		09-Nov	8:45AM - 9:00AM	Celebration 14 (Convention Level)
Kebonyetsala Aobakwe Laurel Seanneng	Heng group	PhD	Investigation of Palmitic Acid Sorption Using Quartz Crystal Microbalance		09-Nov	9:04AM - 9:20AM	Barrel Spring II
Luxi Yu	Cleo Kontoravdi Group & Antonio del Rio Chanona Group	PhD	Soft sensing of intracellular states for online monitoring and control of product quality using Ensemble Kalman Filters and Recurrent Neural Networks		09-Nov	1:33PM	Bayhill 25
Nicole Henry	Professor Rongjun Chen	Postdoc	Cell Membrane-Derived Nanoscale Systems for Delivery of Thrombolytic Therapeutics		09-Nov	9:12AM - 9:30AM	Celebration 15
Steven Sachio	Papathansiou Lab	PhD	A Model-Based Framework for Integrated Design and Operation: An Application to Chromatographic Processes		09-Nov	2:36PM - 2:57PM	Bayhill 25 (Lobby Level)
Steven Sachio	Papathansiou Lab	PhD	Multidimensional Design Space Identification and Analysis Via Multi-Parametric Programming		09-Nov	1:12PM - 1:33PM	Bayhill 25 (Lobby Level)