

# Sanyapong Petchrompo

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CURRENT POSITION      Lecturer in Operations Research      *2021–Present*  
Department of Mathematics, Mahidol University

EDUCATION      **University of Cambridge**      *2017–2020*  
Department of Engineering  
*PhD in Engineering*  
Supervisor: Dr Ajith Kumar Parlikad  
Examination committee: Dr Alexandra Brintrup, Prof David Coit

**London School of Economics and Political Science**      *2014–2015*  
Department of Management  
*MSc in Operational Research (Distinction)*  
Supervisor: Dr Alicia Mejia-Salazar

**University College London**      *2013–2014*  
UCL School of Management  
*MSc in Management (Distinction)*  
Supervisor: Prof Rouba Ibrahim

**Chulalongkorn University**      *2009–2013*  
Faculty of Engineering  
*BEng in Industrial Engineering (Hons)*  
Supervisors: Asst Prof Surapong Sirikulvadhana, Dr Chonawee Supatgiat

RESEARCH INTERESTS      Methodology: Optimisation; Multi-criteria analysis; Data analytics  
Application: Asset management; Logistics management; Service operations

PUBLICATIONS      S. Petchrompo, A. Wannakrairot, and A. K. Parlikad., 2021. Pruning Pareto optimal solutions for multi-objective portfolio asset management. *European Journal of Operational Research*.

S. Petchrompo, H. Li, A. Erguido, C. Riches, and A. K. Parlikad., 2020. A value-based approach to optimising long-term maintenance plans for a multi-asset  $k$ -out-of- $N$  system. *Reliability Engineering & System Safety*.

S. Petchrompo and A. K. Parlikad., 2019. A review of asset management literature on multi-asset systems. *Reliability Engineering & System Safety*.

AWARDS & SCHOLARSHIPS	SACC Research Competition 2021 by The Royal Thai Embassy, UK <i>Winner &amp; Best Presentation Awards</i>	
	SACC Research Competition 2020 by The Royal Thai Embassy, UK <i>Runner-up</i>	
	Mahidol University Staff Development Scholarship by The Royal Thai Government <i>Recipient (full support for 2017–2020)</i>	
	Chulalongkorn Engineering Outstanding Academic Achievement <i>Recipient for 2011–2012</i>	
RESEARCH EXPERIENCE	<b>Chulalongkorn University</b> Sasin School of Management <i>Research Assistant to Dr Chonawee Supatgiat</i>	<i>2013</i>
TEACHING EXPERIENCE	<b>Mahidol University</b> Department of Mathematics Operations Research, Statistical Data Analysis, Practical Mathematical Modelling, Stochastic Processes & Applications, Investment Science, Introduction to Business Software (undergraduate)	<i>2016–Present</i>
	<b>University of Cambridge</b> Department of Engineering Industrial Operations Management, Industrial Engineering (undergraduate) Data & Modelling (postgraduate)	<i>2018–2020</i>
	<b>London School of Economics &amp; Political Science</b> Department of Management Practical Optimisation Modelling, Simulation Modelling & Analysis (undergraduate)	<i>2015</i>
PROFESSIONAL EXPERIENCE	<b>Network Rail, UK</b> <i>Consultancy Project for Advanced Analytics Department</i>	<i>2019–2020</i>
	<b>ExxonMobil, UK</b> <i>Consultancy Project for Utilities Business Team</i>	<i>2017–2018</i>
	<b>Gallions Housing Association (Peabody Trust), UK</b> <i>Consultancy Project for Residents Management Team</i>	<i>2015</i>
	<b>Siam Commercial Bank, Thailand</b> <i>Consultancy project for Cash Forecasting and Optimisation Team</i>	<i>2014</i>
SERVICE	Journal Referee Service: <i>Reliability Engineering &amp; System Safety, Production Planning &amp; Control</i>	

INVITED TALKS	How to Write A Successful Research Proposal <i>The Royal Thai Embassy, UK</i>	2019
	Studying in World-class Universities <i>Mango Learning Express, Thailand</i>	2016
	Future Career of Industrial Mathematicians <i>Mahidol University, Thailand</i>	2016
	Higher Education in UK Top Universities <i>Kasetsart University, Thailand</i>	2015
	Applications of Stochastic Modelling in Industry <i>Chulalongkorn University, Thailand</i>	2015

REFERENCES

**Dr Ajith Kumar Parlikad**

*Reader in Manufacturing Systems, Head of Asset Management*

Institute for Manufacturing, University of Cambridge

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**Dr Chonawee Supatgiat**

*Assistant Professor of Finance*

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**Dr Tipaluck Krityakierne**

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