

Standard Academic CV

Please see notes for guidance to help you complete the cv

	mation	Du Oli ala Wala Oli annon		
Name		Dr Chak Wah Cheung		
Employee nun		80002413		
Current Appoi				
Post and grade		Senior Lecturer/Programme Director (SP51): Department of Mechanica Engineering and Aeronautics (MEA) Programme Director: SMCSE Foundation Programmes, Westminster Kingsway College, City and Islington College, INTO/CITY and Kaplan International College		
Date of appoir current post	ntment to	Senior Lecturer – 2003 Programme Director – 2012		
School		School of Engineering and Mathematical Sciences		
Previous Subs	stantive Appoin	tments (at City and elsewhere)		
Date	Appointment			
		ector – Mechanical Engineering and Aeronautics, ector – School Foundation Programmes, City University London		
August 2008- October 2013	Assistant Dean -	– School Foundation Programmes, City University		
August 2007- August 2008	Associate Dean	 Undergraduate Recruitment, City University 		
	Senior Lecturer/ Aeronautics, City	Director of Studies/Assistant Dean – Mechanical Engineering and y University		
August 2001- 2003	Programme Dire	ector – Aeronautical Engineering, City University		
August 1995- 2001	Lecturer/Admiss	sions Tutor – Mechanical Engineering and Aeronautics, City University		
July 1994- August 1995	Lecturer – Mech	anical Engineering and Aeronautics, City University		
March 1985- July 1994	Assistant Engine	eer → Principal Engineer, British Aerospace Plc (now BAE Systems)		
Other Appoint	ments (e.g. clin	ical appointments, honorary appointments)		
Date	Appointment			
Sept 2009- 2016	external examir	ner for Cranfield University's MSc dissertations by research		
Oct 2011 – until 2015	external examir	ner for the engineering foundation programme at Brighton University		
10 th June 2009	external members Brighton University	er of the validation committee for BSc(Hons) Engineering top up degreersity		
15 th March 2012		er of the validation committee for BEng(Hons) Aeronautical Engineering, ollege of Technology		

Date		Title of award	Subject					Class	Awardi body	ng
August 19	996	PhD	Aeronautical	Eng	ineering			N/A	Univers London	•
August 19	981	BSc (Eng)	Mechanical I	Engir	neering			Uppe 2nd	r Univers London	
June 200	2	DPSI	Diploma in P	ublic	Service Interpret	ting		Merit	Institute Linguist	
Members	ship	of Professional	Bodies							
Date of joining	Pro	fessional body							Level/Ro	ole
16/3/199 Royal Aeronautical S 2			ociety						Fellow – 2005	from
13/8/200 1	Higl	ner Education Ac	ademy						Fellow – 2005	from
10/5/200 7	Inst	itute of Mathema	ics and its Ap	plica	tions				Fellow – 2007	from
Educatio	า									
Education	nal re	esponsibilities ir	the current	aca	demic year			Ye	ear 2012-2	013
Module			AEM226 – Structural Dynamics and Aeroelasticity							
Leadersh responsil	-	ducational es	Module leader							
Level of s	tudy	,	4		Number of students	3	Proportion facilitates		nodule	50
Module-le	evel	evaluation	Teaching 4	4.8	Assessment and feedback	4.8	Overall	4.3	Response rate	1009
Commen contribut to enhand	ion (i	nclude actions	number of N Transport E	/IEng ngind ed or	dule was created g Aeronautical stu eering programm n methodologies gn.	dents e and	following the materi	he terr als pre	mination of the esented are v	e Air ery
Module			AE3204 – A	ircra	ft Structural Analy	ysis				
Leadersh responsil	-	ducational es	Module lead	ler						
Level of s	tudy	,	3		Number of students	9	Proportion facilitated		nodule	50
Module-le (where av		evaluation ble)	Teaching	4.8	Assessment and feedback	5.0	Overall	5.0	Response rate	33.3
Commen contribut to enhance	ion (i	nclude actions	need of our content I de	Parts	been created things 3/4 mechanical for this module is ineering students	and a	nutomotive non to the	engine above	eering studer module AE3	its. Th 204 fc

Module	ME2109	ME2109						
Leadership/Educational responsibilities	Module lecturer							
Level of study			Number of students	93	Proportion facilitates		module	30
Module-level evaluation (where available)	Teaching	4.4	Assessment and feedback	4.5	Overall	4.4	Response rate	17%
(where available) Commentary on own contribution (include actions to enhance learning) My contribution to the teaching of this newly created (core) super-mo 45 credits is in the key area of engineering structures. The lectures a attended by all Part 2 MEA students. I have recently introduced the n teaching method of using in-class demonstration of problem solving in graphical and analytical methods that can be repeated readily using infaster.					he lectures are oduced the ne olem solving b eadily using M	e ew y 1S		

Module	AE2203 – F	AE2203 – Part 2 Aircraft Analysis and Design						
Leadership/Educational responsibilities	Module lecturer							
Level of study	2		Number of 2 students	27	Proportion facilitate		module	30
Module-level evaluation (scale: 1-lowest, 5-highest)	Teaching	4.3	Assessment and feedback	4.1	Overall	4.1	Response rate	67%
Commentary on own contribution (include actions to enhance learning)	Aeronautica	al and	onsible for deliver d Air Transport st is and design.					
Module	AE3100 – Part 3 Aeronautical Design							
	Module lecturer							
Leadership/Educational responsibilities	Module lect	urer						
	Module lect	urer	Number of students	15	Proportion facilitate		module	70
responsibilities		4.2	students	15 3.6			module Response	70 53%

(copy and paste the above for additional modules)

7c Summary of significant personal achievements in education

- (1) The teaching of my modules, their contents and delivery received some of the highest rating consistently over the past years in our internal student feedback exercises and I was nominated for the Student Voice Award for my teaching in 2010. Some of the students whom I taught over the past 20 years at City University have progressed to become leaders in their respective industry. This year, I was short-listed for the VC award for excellence in Teaching and Learning.
- (2) I am largely responsible for overseeing the quality and standard of all our foundation programmes. I am also responsible for the design and organisation of laboratory and CAD exercises for the large group foundation students (~150) which not only has been self-funded but also provided these students a good educational transition experience in preparation for

their degree studies at City University. Evidence of high quality of foundation programmes and their success have been demonstrated by our progression statistics in the last two years which show that former foundation students have consistently performed at the highest level and better than other students admitted through the traditional A-level routes.

- (3) I have been a Fellow member of the Higher Education Academy and I have been acting as an external examiner for two well-known universities in the UK, helping to monitor and maintain high academic quality and standard across the UK higher education system.
- (4) Throughout 20 years of teaching and programme management at City University and as a leading member of staff in the Department of Mechanical and Aeronautics, I have played a leading role in securing continual programme accreditation in 2005, 2010 and periodic reviews in 2008 and 2013, improving the academic quality and standard and maintaining the currency of our degree programmes in the processes.

8. Research

8a Summary of current research

My current research has been focused on the modelling of aerodynamic flows for the analysis of and providing solution to aeroelastic design problems such as aircraft wing flutter and gust responses.

8b Summary of research in the previous three years

Over the past few years, my research interests cover areas ranging from modal testing and finite element analysis of engineering structures, computational unsteady aerodynamics, and air transport engineering management.

Summary of significant personal achievements in research, including any impact beyond academia (this may arise from the use of your research by others as well as by you)

Two of my programs developed through my research have been adopted and used routinely by the aircraft industry for the aeroelastic design of flight vehicles.

8d Research grants and contracts awarded in the last three years

Start and end dates	PI and Co Investigators	Funding body			Total amount (if different)
N/A	N/A	N/A	N/A	N/A	N/A

8e Research grants and contracts bids submitted in the past three years

Start and end dates	PI and Co Investigators	Funding body			Total amount (if different)
N/A	N/A	N/A	N/A	N/A	N/A

9. Publications

Please attach your list of publications following the format below. The link below will take you to guidance on how to use City Research Online (CRO) to do this (see section 9 on the webpage). http://www.city.ac.uk/research/research/support-for-researchers/city-research-online

Please include:

- Citations, where applicable and where you consider this to be of significance
- Whether you were the main author (or joint main author), where applicable, with a Y or = next to the reference, if this is not indicated by the order of the authors
- an asterisk * next to any especially significant publications

Category	*	Main Author Y or =	Publications Please insert number of citations where applicable
Journal papers	*	Υ	 On a Flexible Algorithm with Applications to Panel Element Equations - C.W. Cheung and C.H. Lai - IMA Journal of Numerical Analysis (2001) 21, 1-17.
			 The effect of laminate lay-up on the flutter speed of composite wings – S.J. Guo, J.R. Banerjee and C.W. Cheung – Proc. Institution of Mechanical Engineers, Vol 217 Part G: Journal of Aerospace Engineering – April 2003.
	*	Y	 Theoretical Determination of Subsonic Oscillatory Airforce Coefficients for Cruciform-tail Configurations - C.W. Cheung – Journal of Algorithms and Computational Technology, Vol 1, No. 1. – March 2007
	*	Y	 Numerical Computation of Subsonic Oscillatory Airforce Coefficients For Wing-winglet Configurations - C.W. Cheung – Journal of Algorithms and Computational Technology, Sept 2007.
			 Free Vibration of a Three-layered Sandwich Beam using the Dynamic Stiffness Method and Experiment – J.R. Banerjee, C.W. Cheung, R. Morishima and M. Perera – International Journal of Solids and Structures 44 (2007) 7543-7563.
			 Cutout Reinforcements for Shear Loaded Laminated and Sandwich Composite Panels – S. J. Guo, C.W. Cheung and L. Zhou – International Journal of Mechanics and Materials in Design – Jan 2008.
Confere nce papers			 The influence of Ply Orientation on the Free Vibration of Laminated Composite Beams - J. Njuguna, H. Su, C.W. Cheung and J.R. Banerjee - Proc ACUN-4 Composite Systems - Macropcomposites, Microcomposites, Nanocomposites - UNSW, SYDNEY, Australia, 21-25 July 2002.
			8. Free Vibration of Metallic and Composite Beams Exhibiting Bending- Torsion Coupling – H. Su, C.W. Cheung and J.R. Banerjee – Ninth International Conference on Civil and Structural Engineering Computing – Egmond-aan-Zee, The Netherlands, September 2003.
			9. Theorectical and Experimental Modal Analysis of Laminated Composite Beams – J. Njuguna, J.R. Banerjee and C.W. Cheung – 2 nd Seminar on Modern Polymeric Materials for Environmental Applications under the auspices of EC Marie Curie Programme, March 23-25, 2006

- 10. Recent Advances in Segmented Polyurethane Nanocomposite J. Njuguna, K. Pielichowski, J.R. Banerjee, J.R. Alcock and C.W. Cheung -2nd Seminar on Modern Polymeric Materials for Environmental Applications under the auspices of EC Marie Curie Programme, March 23-25, 2006 11. Feasibility Study on Establishing a Low Cost Carrier in Taiwan – Chiu-Hua Chang, S.J. Bond and C.W. Cheung - ATRS Conference, May 2005, Nogoya, Japan. 12. Cutout Reinforcements for Shear Loaded Composite Panels – S.J. Guo, L. Zhou and C.W. Cheung - 5th International Conference on Mechanics and Materials in Design, 24-26th July, Porto, Portugal, 2006. 13. Aeroelastic Optimisation of a Tapered Composite Wing Structure - S.J. Guo and C.W. Cheung - 5th International Conference on Mechanics and Materials in Design, 24-26th July, Porto, Portugal, 2006. 14. Free Vibration of a Three-layered Sandwich Beam using Theory and Experiment- J.R. Banerjee, C.W. Cheung, R. Morishima, M. Perera and J. Njuguna, 47th AIAA/ASME/ASCE/AHS/ASC Structures, Dynamics, and Materials Conference, 1-4 May 2006, Newport, Rhode Island, USA. 15. Taiwanese Airlines and Government Views of Low Cost Carrier Development Between Taiwan and other Asian Countries - Chiu-Hua Chang, S.J. Bond and C.W. Cheung - Air Transport Research Society World Conference, 21-24 June 2007, U.C. Berkelev, USA. 16. The Expectation of After 'Open Skies' Between Taiwan and China - Chiu-Hua Chang, S.J. Bond and C.W. Cheung - Air Transport Research Society Conference, 6-10th July 2008, Athens, Greece. 17. The study of Route Characteristics in the Taiwanese Market – Chiu-Hua Chang, S.J. Bond and C.W. Cheung - Air Transport Research Society Conference, 6-10th July 2008, Athens, Greece.
- Major conference presentations over the last three years (including current year) plus any significant participation in previous years

 Date Title and nature of involvement (e.g., keynote address)

 10. Doctoral Research Student Supervision (see Senate Regulations 23 and 24 for the list of eligible degrees)

 Number of students

 Degree Current Completed PhD

10	10b Doctoral studentships awarded						
	Source of funding	Date of award					

Details of Doctoral research students supervised to completion						
Student name	Degree and title of thesis	Start date	Completion date			
ChiuHua Chang	Airline Development Strategies and Feasibility Study on Establishing a Low Cost Carrier in Taiwan	Oct 2005	March 2009			
Liangchen Zhou	Aerodynamic and Structural Study of Flapping Wing Vehicle	Feb 2006	July 2013			

10d Additional achievements in supervision e.g., supported a student to publication, their future career

While at City University, the above former PhD student was supported and provided funding to present 5 conference papers in international air transport research society conferences (ATRS) and numerous newspaper articles in Taiwan, generating significant amount of interest to his research work. After his graduation, Dr Chang subsequently secured a key management position in a major airline company in Taiwan.

11. Contributions to Enterprise

11a Summary of current contributions to enterprise

11b Details for the last three years (including current year)

Date	Nature of contribution	Value to City

12. Contributions to Professional Practice

Details for the last three years (including current year) together with a summary of significant contributions in previous years

Date	Nature of contribution
2003-2014	I was a member of the certification committee of a major international certification body (Bureau Veritas) whose key business is to provide certification auditing on quality management systems and related standards such as AS9100. Acting as an independent consultant from the aerospace sector, my role involves advices on the current status and future direction in the global certification business and development of quality management standards as the air transport and aerospace industries are undergoing rapid changes in response to relentless growth in air traffic as well as the need for sustainable development in the industry.
2001-2010	Up until recently, I had been acting as the Academic Liaison Person (ACL) between City and the Institution of Mechanical Engineers (IMechE), feeding back our views to the Institution and relaying back responses and important events and conference news that are of interests to our student and staff.

13. Indications of Peer Esteem

Details for the last three years (including current year) together with a summary of significant contributions in previous years e.g. external examinerships, honorary fellowships, editorial board memberships and major awards, honours and prizes

Date	Nature of recognition
Sept 2009- 2016	I am an external examiner for Cranfield University's MSc dissertations by research
Oct 2011 - present	I am an external examiner for the engineering foundation programme at Brighton University

Contributions to Administration, Management, Educational and Research Development and Academic Leadership in the University and/or School

Details for the last three years (including current year) together with a summary of significant contributions in previous years

444	School
M 74 92 II	School

School						
Date	Nature of contribution					
2012- Present Programm e Director - Mechanica I Engineerin g and Aeronautic s	in 2010 and 2013 respectively. Throughout the last few years since I became the MEA programme director, the department has also undergone a number of significant internal reviews of our degree offering through streamlining and rationalisation of our programme module diets and assessment rules and the process is still ongoing. As a result, our programmes are now much better structured and their curriculum and contents are much more current and relevant to meet the demands by industries. The successes of these					
2009-Dec 2013 Assistant Dean – Foundation Programmes	(2) As Assistant Dean for the School's foundation programmes, I am responsible for the quality and standards development of our foundation programmes in order to make sure that they are fit-for-purpose in preparing students for a smooth transition to our engineering degree programmes at City. Through my chairing of regular discussions and programme management committee meetings between staff from City and our educational partners, I have succeeded in building a good working partnership with City and Islington College and Westminster Kingsway College for the provision of two engineering foundation programmes (for mostly home students), feeding 120 (total number 150 in Sept 2013 intake) high quality students into our range of SEMs programmes over the last 15 years and will continue to do so for many years to come. Progression criteria are reviewed on an annual basis to ensure they are in line with the university strategic aim to raise the overall A-level entry tariffs for entry into our degree programmes across the University. The successes of the foundation programmes have been clearly demonstrated by the fact that foundation students have enjoyed some of highest progression rate with large percentage of them eligible for registration to MEng route and outperforming students admitted through the traditional A-level routes.					
	 (3) I am responsible also for the planning and organising resources for the quality provision and timely delivery of laboratory and AutoCaD exercises for all foundation students which have been designed to enhance the students' learning experience and familiarity with City's learning environment and staff. (4) On the internal recruitment front, new partnership and joint venture have been successfully established recently with Kaplan and INTO/CITY respectively through a period of my active negotiation and participation in various programme validation panels and committees on behalf of SEMs and Sol so that I was able to contribute to decision makings on issues relating to the establishment and development of high quality and sustainable foundation programmes for overseas students. International student numbers have been increased from 19 registered last year to 25 offers made to Kaplan/INTO students this year. 					
	(5) I am the module leader for 3 core modules with the responsibility for developing the contents and managing the delivery of these modules. I am also involved in joint delivery of three other modules. I have a total of over 180 hours of teaching in the current academic year. I also act as supervisor for a number of final year undergraduate projects as well as a					

PhD research project.

	I am either a member or chairman of the following committees: (i) School Board of Studies (BoS), (ii) School Learning and Teaching Committee (iii) MEA Programme Management Committee (iv) Chair for the Programme Management Committee for City and Islington EEIE foundation programme (v) Chair for the Programme Management Committee for Westminster Kingsway Civil/MEA foundation programme (vi) INTO/CITY Course Board (vii) SEMs representative in the Kaplan Clearing Board (viii) Chairman for the MEA Extenuating Circumstances Panel			
Assistant Dean – MEA	(6) As the former Assistant Dean for the MEA programmes, I led the MEA team of staff in achieving the previous 5-year accreditation in 2005 up to 2009 by the above two professional institutions and the QAA departmental engagement exercise in 2003 as well as migration of our degree programmes based on the newly developed credit-based system of high education level credits and learning outcomes and competencies published by the UK Engineering Council (UK-SPEC).			
	 (7) I am a registered Chartered Engineer since 1992 and have gained the following professional Fellow memberships: (a) The Royal Aeronautical Society, (b) The Institute of Mathematics and its Applications (c) The Higher Education Academy 			
I				

14b University	4b University					
Date	Nature of contribution					
July 2009 July 2015	I was a member of the validation committee for the creation of the INTO foundation programme for science and engineering studies, giving my advices on behalf of the School on the appropriateness of the curriculum, teaching and assessment methods, entry and progression criteria relating to the programme. The INTO foundation programme was successfully launched in September 2009. As recently as in 22 nd June 2015, I was involved in the revalidation exercise of the same set of programmes.					
Oct 2010	I was a member of the validation committee for the re-validation of the City and Islington/City University Foundation Degree programme, giving my advices as a member of the City and Islington College/City University Course Board on the appropriateness of the curriculum, teaching and assessment methods, entry and progression criteria relating to the programme. The Foundation Degree was successfully revalidated early this year.					
2009- present	I am a member of the City and Islington/ City University Course Board which is the board responsible for the management and development of academic quality and standard and enhancement of learning experience for a whole range of partnership programmes between the two institutions for which City has a major role to play. This board reports directly to the University's Education and Teaching Committee.					
2009- present	I am a member of the INTO/CITY foundation course board which is the board responsible for the management and development of academic quality and standard and enhancement of learning experience for the INTO foundation and graduate diploma programmes.					
2003- present	I am a member within the pool of academics who have been approved by the Senate to sit in the University's Appeals, Complaints and Enhancement Panel hearings whenever I am required.					

15.	Staff Deve	opment						
15a	Staff development activities undertaken over the last and current year plus any significant activities in previous years							
	Date	Activity					Length (in days)	
15b	5b Qualifications currently undertaking							
	Start date	Expected completion date	Title of Award	Subject			Awarding body	
15c	Staff development activities co-ordinated, tutored, led or initiated over the last three years (including current year) plus any significant activities in previous years							
	Date	Activity					Length (in days)	
15d	Study/sabl	patical leave t	taken ove	r the last three years (inclu	dina currer	nt vear)		
	Date	Purpose		,	g	,		
150	Activities a	and achievem	ants in th	e most recent period of stu	ıdv/sahhat	ical leave		
100	Date	es and achievements in the most recent period of study/sabbatical leave Description of activities and achievements						
16.	Internation	nal Activities						
	Details for the last three years (including current year) together with a summary of significant activities in previous years							
	Between 2009-2011, I have been a visiting lecturer for two universities in China, Nanjing University of Aeronautics and Astronautics (NUAA) and Harbin University of Science and Technology (HUST), giving lectures to groups of Chinese students studying engineering degrees as a way of promoting City University degree programmes and familiarising the Chinese students who had already applied to come to study at City University.							
17.			ation (plea	ase include contributions	at other	institutions)		
	Signed	Augh	end		Date	6/3/2017		