

CURRICULUM VITAE

LAM PETER CHE BOR

PERSONAL DATA

Name: Prof. Lam Peter Che Bor
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United International College,
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PERSONAL PROFILE

An all-rounded mathematician cum professional accountant with almost 40 years' diversified experiences in teaching both undergraduate and postgraduate students, researching, financial accounting and planning; with an excellent track record in researches in the recent 10 years in Graph Theory and Combinatorics.

PROFESSIONAL QUALIFICATIONS

1979 CGA - The Certified General Accountant's Association of Canada (B.C.)

ACADEMIC QUALIFICATIONS

1966 Bachelor of Arts (Hons) Mathematics
The University of Hong Kong
1972 Doctor of Philosophy– Mathematics
University of British Columbia

WORKING EXPERIENCE

2007 – now Professor, United International College,
Zhuhai, PRC.
2006 – 2007 Visiting Professor, Department of Mathematics,
Tung Hai University, Taichung, Taiwan.
2005 – 2006 Professor, Department of Mathematics
Hong Kong Baptist University
2001 – 2005 Associate Professor - A, Department of Mathematics
Hong Kong Baptist University
1995 – 2001 Associate Professor - B, Department of Mathematics
Hong Kong Baptist University

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WORKING EXPERIENCE (Cont'd)

1989 – 1995	Lecturer, Department of Mathematics Hong Kong Baptist College / University
1986 – 1989	Associate, Corcoran & Co., Chartered Accountants
1983 – 1986	Principal Peter Lam and Co., Certified General Accountant
1977 – 1983	Accountant Thorne Riddell Chartered Accountants
1974 – 1977	Accountant Auyeung and Co., Certified General Accountant
1972 – 1974	Post-Doctoral Fellow, Department of Mathematics University of British Columbia
1968 – 1972	Teaching Assistant, Department of Mathematics University of British Columbia
1966 – 1968	Demonstrator, Department of Mathematics University of Hong Kong

SUBJECTS TAUGHT FROM 1989 TO PRESENT (Appendix I)

ACADEMIC ACHIEVEMENTS

<i>Research Grants Awarded as Principal Investigator</i>		Awarded (HK\$)
<u>RGC Earmarked Research Grant</u>		
2005-2007	On Problems Related to Steinberg's Conjecture	308,000
1997-1999	Coloring Problems in Graph Theory	435,600
<u>HKBU Faculty Research Grant</u>		
2003-2004	The L(2,1)-labeling of Graphs	108,420
2001-2001	Colorability and Choosability of Graphs	50,000
2000-2002	Structure of Cycles in Graphs and its Applications	141,000
1998-2000	The Circular Chromatic Number – Inspired by the Traffic Control Problems	126,000
1997-1998	Coloring Problems in Graph Theory.	90,500
1995-1996	The Minimum Bandwidth of Graphs	125,500

Publications (Appendix III)

- Selected Publications from a total of 61 (Appendix III)
- Complete List of Publications (Appendix III)

Presentations at Conferences And Workshops (Appendix II)

Supervision of Postgraduate Students

Ph.D.

2005	Guohua Gu, "Distance-two constrained labellings of graphs and related problems"
2004	Wensong Lin, "Circular chromatic numbers and distance two labeling numbers of graphs"
2003	Chan Wai Hong, "The bandwidth and coloring problems of graphs"
2001	Zengmin Song "Cycles and coloring in graphs"

M.Phil.

2003	Tam Wing Ka* "The strong chromatic index of cubic Halin graphs" (2003)
2000	Cheng Hee Lin* "Supermagic labeling, edge-graceful labeling and edge-magic index of graphs" (2000)
1998	Tang Ying Ping Wendy "Bandwidth of some classes of full directed trees" (1998)
1996	Chan Wai Hong* "Bandwidth problems of graphs" (1996)
* as co-supervisor	

Journals Refereed

- Ars Combinatoria
- Discrete Mathematics
- Discrete Applied Mathematics
- Graphs and Combinatorics

BOARD AND COMMITTEE MEMBERSHIPS

2003 – Present	Director of the Board of Management, JUPAS
2002 – 2005	Member of Mathematics Department Academic Committee, HKBU
2002 – 2005	Representative of Faculty of Science in the Conflicts Committee of HKBU
2002 – Present	Honorary Fellow of S.R. Zhou Hall, HKBU
2000 – 2005	Chairman or member of Exam Board for 4 M.Phil. and 1 PhD oral presentations
2000 – 2005	External examiner for one course of Open University of Hong Kong
2000 – 2002	Member of the General Tender Board of HKBU
1998 – Present	Trustee of the Hong Kong Baptist University 1998 Superannuation Fund
1996 – 2001	HKBU Nominee to HKEA Sixth Form Applied Mathematics Subject Committee
1995 – 1998	Trustee of the Hong Kong Baptist University Superannuation Fund

SUBJECTS TAUGHT FROM 1989 TO PRESENT

2005 – 2006	<i>Subjects scheduled for the coming academic year:</i> ❖ Life Insurance and Life Contingencies (Sem 1) ❖ Discrete Structures (Sem 1) ❖ Science in Today's Society (Sem 1) ❖ Mathematics in Today's Society (Sem 2) and ❖ Recreational Mathematics. (Sem 2)
1991/92 – Present	<i>Life Insurance and Life Contingencies:</i> Subject taken by mathematics major students, taught once a year for every academic year
1992/93 – 1994/95	<i>Statistics I:</i> Subject taken by mathematics major students, taught once a year for every academic year
1993/94 – Present	<i>Qualitative Analysis, Numerical Methods and Discrete Structure:</i> Service subject for computer science major students, taught once a year for every academic year
1991/92 – 2003/04	<i>Operations Research I & II:</i> Subjects taken by mathematics major students, taught at least one of the two subjects for every year
1995/96 – Present	<i>Mathematics in Today's Society:</i> Subject taken by non-mathematics majors, taught once a year for almost every year
1995/96 – 1997/98	<i>Real Analysis:</i> Subject taken by mathematics major students, taught once a year for every academic year
1989/90 – 1993/94	<i>Simulation:</i> Subject taken by mathematics and computer science major students, taught once a year
1989 – Present	<i>Other subjects taught:</i> ❖ <i>Numerical Methods</i> ❖ <i>Graph Theory</i> ❖ <i>Special Topics in Graph Theory</i> ❖ <i>Science in the Social Context, and</i> ❖ <i>Science in Today's Society</i>
1989 – Present	<i>Over 50 undergraduate honors projects and/or dissertations supervised</i>

PRESENTATIONS AT CONFERENCES AND WORKSHOPS

- Jun 2006 “Bounds on the Labeling Number of Chordal Graphs” *The 2006 International Conference on Foundations of Computer Science (FCS'06: June 26-29, 2006)*, Las Vegas, USA
- Mar 2006 “Graphs with convex labelings” *The 37-th Southeastern International Conference on Combinatorics, Graph Theory and Computing*, Boca Raton, Florida, USA
- Dec 2005 “Colorability and choosability of plane graphs” *TMS & AMS Joint International Conference*, Tunghai University, Taichung, Taiwan
- May 2005 “ $L(j,k)$ -labellings and circular $L(j,k)$ -labellings of graphs and related problems” *CTS Conference on Combinatorics and its Applications in Honor of Frank K. Hwang's 65-th Birthday*, National Chiao Tung University, Hsin Chu, Taiwan
- Mar 2005 “Distance-two constrained labelings of graphs and related problems” *The 36-th Southeastern International Conference on Combinatorics, Graph Theory and Computing*, Boca Raton, Florida, USA
- Mar 2004 “ $L(2,1)$ -labeling characterization of chordal graphs” *The 35-th Southeastern International Conference on Combinatorics, Graph Theory and Computing*, Boca Raton, Florida, USA
- June 2002 “Reducibility and choosability of plane graphs” *The 2-nd Cross-strait Conference on Graph Theory and Combinatorics*, Academia Sinica, Taipei, Taiwan
- Jan 2002 “On coloring of plane graphs” *Work shop of the Joint Institute of Mathematical Research of Beijing University and Hong Kong Baptist University*, Beijing, China
- July 2001 “On coloring of graphs” *The 8-th Conference on Combinatorics and the 11-th Conference on Graph Theory of PRC*, Dalian, China
- Feb 2001 “On edge-face coloring of regular Halin graphs” *The 32-nd Southeastern International Conference on Combinatorics, Graph Theory and Computing*, Baton Rouge, Louisiana, USA
- Oct 2000 “Choosability of a class of plane graphs” *The 6th National Meeting of the Operations Research society of China*, Changsha, China
- June 2000 “Edge-face total chromatic numbers of Halin graphs” *The Ninth Quadrennial International Conference on Graph Theory, Combinatorics, Algorithms, and Applications*, Kalamazoo, Michigan, USA

PRESENTATIONS AT CONFERENCES AND WORKSHOPS (Cont'd)

- Mar 2000 “Supermagic labeling of an s -duplicate of $K_{n,n}$ ” *The 31-st Southeastern International Conference on Combinatorics, Graph Theory and Computing*, Boca Raton, Florida, USA
- May 1999 “Coloring of plane graphs” *Hong Kong Mathematical Society Annual General Meeting*, Hong Kong Baptist University
- Mar 1999 “Some sufficient conditions for a planar graph to be of Class 1” *The 30-th Southeastern International Conference on Combinatorics, Graph Theory and Computing*, Boca Raton, Florida, USA
- Mar 1998 “List colorings of some plane graphs” *The 29-th Southeastern International Conference on Combinatorics, Graph Theory and Computing*, Boca Raton, Florida, USA
- Mar 1997 “Duality in Bandwidth problems” *The 28-th Southeastern International Conference on Combinatorics, Graph Theory and Computing*, Boca Raton, Florida, USA
- June 1996 “Entire chromatic number of maximal outerplanar graphs” *The Eighth Quadrennial International Conference on Graph Theory, Combinatorics, Algorithms, and Applications*, Kalamazoo, Michigan, USA
- June 1993 “Bandwidth for graphs with vertices merged” *The Third China-USA International Conference on Combinatorics, Graph Theory, Algorithms and Applications*, Beijing, China

Total publication list:

- 68. W. S. LIN, J. Z. WU, P. C. B. LAM AND G. H. GU, *Several parameters of generalized Mycielskians*, Discrete Applied Mathematics **154**, 1173-1182 (2006).
- 67. W. S. LIN, P. C. B. LAM AND W. C. SHIU, *Circular chromatic numbers of the generalized Mycielskians of cycles*, J. of Nanking University Mathematical Biquarterly **23**, 232-241 (2006).
- 66. P. C. B. LAM, W. C. SHIU AND G. H. GU, *Graphs with convex labeling*, Congress. Numer. **183**, 213-219 (2006).
- 65. W. C. SHIU, P. C. B. LAM AND P. K. SUN, *Cubic graphs with different incidence chromatic numbers*, Congressus Numeratium **182**, 33-40 (2006).
- 64. P. C. B. LAM, G. H. GU, W. S. LIN AND P. T. CHUNG, *Bounds on the labelling numbers of chordal graphs*, Proceedings of International Conference on Foundations of Computer Science [FCS'06], Editors H. R. Arabnia, Mark Burgin 41-47, Las Vegas, USA (2006).
- 63. P. C. B. LAM, W. S. LIN AND J. Z. WU, *$L(j, k)$ - and circular $L(j, k)$ -labellings for the products of complete graphs*, to appear in J. of Combinatorial Optimization (2006).
- 62. P. C. B. LAM AND W. S. LIN, *Coloring of distance graphs with intervals as distance sets*, European Journal of Combinatorics, **26**(8), 1216-1229 (2005).
- 61. W. C. Shiu and P. C. B. Lam, *Super-edge-graceful labelings of multi-level wheel graphs, fan graphs and actinia graphs*, Congressus Numeratium **174**, 49-63 (2005).
- 60. W. C. SHIU, P. C. B. LAM AND H. P. ZHANG, *k -resonance in toroidal polyhexes*, Journal of Mathematical Chemistry **38**, 471-486 (2005).
- 59. P. C. B. LAM, W. C. SHIU AND Z. M. SONG, *The 3-choosability of plane graphs of girth 4*, Discrete Mathematics **294**, 297-301 (2005).
- 58. W. S. LIN, P. C. B. LAM AND Z. M. SONG, *Circular chromatic numbers of some distance graphs*, Discrete Mathematics **292**, 119-130 (2005).
- 57. W. C. Shiu, P. C. B. Lam and P. K. Sun, *Construction of group-magic graphs and some A -magic graphs with A of even order*, Congressus Numeratium **167**, 97-107 (2004).
- 56. D. ARCHDEACON, J. ELLIS-MONAGHAN, P. C. B. LAM AND R. YUSTER, *Some remarks on domination*, J. of Graph Theory, **46**, 207-210 (2004).
- 55. P. C. B. LAM, W. S. LIN, G. H. GU AND Z. M. SONG, *Circular chromatic number and a generalization of the construction of Mycielski*, J. of Combin. Theory Ser. B, **89**, 195-205 (2003).
- 54. H. P. ZHANG, P. C. B. LAM AND W. C. SHIU, *Cell rotation graphs of strongly connected orientations of plane graphs with an application*, Discrete Applied Mathematics, **130**, 469 - 485 (2003).
- 53. P. C. B. LAM, W. C. SHIU AND H. P. ZHANG, *Elementary blocks of plane bipartite graphs*, Comm. in Math. Comput. Chem. (MATCH), **49**, 127-137 (2003).
- 52. W. C. SHIU, P. C. B. LAM AND L. Z. ZHANG, *Fully angular hexagonal chains extremal with regard to the largest eigenvalue*, Indian J. of Chemistry, **31**, 1298-1303 (2003).
- 51. P. C. B. LAM AND H. P. ZHANG, *A distributive lattice on the set of perfect matchings of a plane bipartite graph*, Order, **20**, 13-29 (2003).

50. W. C. SHIU, P. C. B. LAM AND L. Z. ZHANG, *Extremal k^* -cycle resonant hexagonal chains*, Journal of Mathematical Chemistry, **33**, 17-28 (2003).
49. W. C. SHIU, P. C. B. LAM AND Y. S. LI, *On some three-color Ramsey numbers*, Graphs and Combin., **19**, 249-258 (2003).
48. W. C. SHIU, P. C. B. LAM AND H. P. ZHANG, *Clar and sextet polynomials of buckminsterfullerene*, J. Mole. Struc. (THEOCHEM), **622**, 239-248 (2003).
47. W. C. SHIU AND P. C. B. LAM, *More on the generalized Fibonacci numbers and associated bipartite graphs*, Inter. Math. J., **3(1)**, 5-9 (2003).
46. W. C. SHIU, P. C. B. LAM, F. J. ZHANG AND H. P. ZHANG, *Normal components, Kekulé patterns, and Clar patterns in plane bipartite graphs*, Journal of mathematical chemistry, **31(4)**, 405-420 (2002).
45. W. C. SHIU, P. C. B. LAM AND Y. S. LI, *On generalized Ramsey numbers*, Discrete Math., **258**, 383-388 (2002).
44. W. C. SHIU, P. C. B. LAM AND H. L. CHENG, *Edge-gracefulness of the composition of paths with null graph*, Discrete Math., **253**, 63-76 (2002).
43. W. C. SHIU, P. C. B. LAM AND D. L. CHAN, *On incidence coloring for some cubic graphs*, Discrete Math., **252**, 259-266 (2002).
42. W. C. SHIU, P. C. B. LAM AND S. M. LEE, *On a construction of supermagic graphs*, J. Combin. Math. Combin. Comput., **42**, 147-160 (2002).
41. W. C. SHIU, P. C. B. LAM AND S. M. LEE, *Edge-magic indices of $(n, n-1)$ -graphs*, Electron. Notes in Discrete Math., **11**, July (2002).
40. W. C. SHIU, P. C. B. LAM AND K. K. POON, *On Wiener numbers of polynomial nets*, Discrete Appl. Math., **122**, 251-261 (2002).
39. P. C. B. LAM, W. C. SHIU AND W. H. CHAN *Characterization of graphs with equal bandwidth and cyclic bandwidth*, Discrete Math., **242**, 283-289 (2002).
38. P. C. B. LAM, W. C. SHIU AND B. G. XU, *On structure of some plane graphs with application to choosability*, J. of Combin. Theory Ser. B, **82**, 285-296 (2001).
37. P. C. B. LAM, W. C. SHIU, C. S. TONG AND Z. F. ZHANG *On the equitable chromatic number of complete n -partite graphs*, Discrete Appl. Math., **113**, 307-310 (2001).
36. P. C. B. LAM, W. C. SHIU, F. SUN, J. F. WANG AND G. YAN, *Linear Vertex Arboricity, Independence Number and Clique Cover Number*, Ars Combin., **58** 121-128 (2001).
35. W. C. SHIU, P. C. B. LAM, D. L. CHEN AND L. Y. MIAO, *On the l -distance face coloring or regular plane graphs*, Congress. Numer. **152**, 85-88 (2001).
34. P. C. B. LAM, J. Z. LIU, W. C. SHIU AND Z. M. SONG, *A class of graphs with χ^* close to $\chi^* - 1$* , Congress. Numer. **150**, 65-68 (2001).
33. P. C. B. LAM, G. Z. LIU, G. J. LI AND W. C. SHIU, *Orthogonal (g, f) -Factorizations in Networks*, Networks, **35(4)**, 274-278 (2000).
32. P. C. B. LAM, W. C. SHIU AND W. H. CHAN, *Edge-face total chromatic number of 3-regular Halin graphs*, Congress. Numer. **145**, 161-165 (2000).
31. W. C. SHIU, P. C. B. LAM AND H. L. CHENG, *Supermagic labeling of an s -duplicate of $K_{n,n}$* , Congress. Numer. **146**, 119-124 (2000).

30. P. C. B. LAM, B. G. XU AND J. Z. LIU, *The 4-choosability of plane graphs without 4-cycles*, J. of Combinatorial Theory Series B, **76**, 117-126 (1999).
29. P. C. B. LAM, W. C. SHIU AND L. SUN, *On independent domination number of regular graphs*, Discrete Mathematics, **202**, 135-144 (1999).
28. P. C. B. LAM, J. LIU, W. C. SHIU AND J. WU, *Some Sufficient Conditions for a Planar Graph to be of Class 1*, Congress. Numer. **136**, 201-205 (1999).
27. W. C. SHIU, P. C. B. LAM AND S. M. LEE, *Edge-magic Index Sets of (p, p) -graphs*, Congress. Numer. **137**, 97-107 (1999).
26. P. C. B. LAM, W. C. SHIU AND H. L. CHENG, *Knight's Tour on Hexagonal Nets*, Congress. Numer. **141**, 73-82 (1999).
25. Y. ALAVI, P. C. B. LAM, J. F. WANG AND B. YAO, *Bandwidth and Some Parameters of Graphs*, Combinatorics, Graph Theory, and Algorithms, Proc. of the 8th quadrennial inter. conf. on graph theory, combin., algor. and appl., 33-41 (1999).
24. W. C. SHIU, P. C. B. LAM AND Z. F. ZHANG, *Entire chromatic number of maximal outerplanar graphs with maximal degree at most four*, Combinatorics, Graph Theory, and Algorithms, Proc. of the 8th quadrennial inter. conf. on graph theory, combin., algor. and appl., 591-595 (1999).
23. P. C. B. LAM, W. C. SHIU AND B. G. XU, *Edge game coloring of graphs*, Graph Theory Notes of New York, **XXXVII**, 17-19 (1999).
22. W. C. SHIU, P. C. B. LAM AND S. M. LEE, *Edge-magicness of the composition of a cycle with a null graph*, Congress. Numer. **132**, 9-18 (1998).
21. P. C. B. LAM, *On number of leaves and Bandwidth of Trees*, Acta Math. Appl. Sinica **14** (2), 193-196 (1998).
20. Y. ALAVI, P. C. B. LAM, P. ERDŐS, D. R. LICK, J. LIU AND J. F. WANG, *Upper Bounds on Linear Vertex-arboricity of Complementary Graphs*, Utilitas Mathematica, **52**, 43-48 (1997).
19. W.C. SHIU AND P. C. B. LAM, *Wiener Numbers of Some Pericondensed Benzenoid Molecular Systems*, Congress. Numer. **126**, 113-124 (1997).
18. P. C. B. LAM, W.C. SHIU AND Y.X. LAM, *Duality in the Bandwidth Problem*, Congressus Numerantium, **124**, 117-127 (1997).
17. W.C. SHIU, P. C. B. LAM AND I. GUTMAN, *The Wiener Number of Hexagonal Bitrapeziums and Trapeziums*, Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. **22**, 9-25 (1997).
16. P. C. B. LAM, W.C. SHIU AND W.H. CHAN, *Bandwidth and Cyclic Bandwidth of Graphs*, Ars Combinatoria, **47**, 87-92 (1997).
15. P. C. B. LAM AND Z.F. ZHANG, *The Vertex-Face Total Chromatic Number of Halin Graphs*, Networks, **30**, 167-170 (1997).
14. W. C. SHIU, C. S. TONG AND P.C.B. LAM, *Wiener Number of Hexagonal Jagged-Rectangles*, Discrete Appl. Math., **80**, 73-81 (1997).
13. P. C. B. LAM, W. C. SHIU, W. H. CHAN AND Y. X. LIN, *On the Bandwidth of Convex Triangulation Meshes*, Discrete Math., **173**, 285-289 (1997).
12. K. T. FANG, P. C. B. LAM AND Q. G. WU, *Estimation for Seemingly Unrelated Regression Equations*, Statist. Decisions, **15**, 183-189 (1997).

11. E. JIANG AND P. C. B. LAM, *An Upper Bound for the Spectral Condition Number of Diagonalizable Matrix*, Linear Algebra Appl., **262**, 165-178 (1997).
10. W. C. SHIU, C. S. TONG AND P. C. B. LAM, *Wiener Number of Some Polycyclic Graphs*, Graph Theory Notes of New York, **XXXII**, 10-15 (1997).
9. W. C. SHIU AND P. C. B. LAM, *The Wiener Number of Hexagonal Net*, Discrete Appl. Math., **73**, 101-111 (1997).
8. I. GUTMAN, G. DÖMÖTÖR, P. C. B. LAM, W. C. SHIU AND L. POPOVIĆ, *Szeged Indices of Benzenoid Hydrocarbons*, Polycyclic Aromatic Compounds, **8**, 259-270 (1996).
7. W. C. SHIU, P. C. B. LAM AND I. GUTMAN *Wiener Number of Hexagonal Parallelograms*, Graph Theory Notes of New York, **XXX**, 21-25 (1996).
6. C. F. CHANG, J. X. CHANG, X. L. XU, P. C. B. LAM AND J. F. WANG, *Edge-Face Total Chromatic Number of Outerplanar Graphs with $\Delta(G) = 6$* , Lecture Notes in Computer Science **959** - Computing and Combinatorics, eds. D.F. Du and M. Li, Springer New York (1995), 396-399.
5. X. S. ZHANG AND P. C. B. LAM, *Mathematical Analysis for Some Neural Networks that Simulate the Penalty Methods*, Proceedings of the International Symposium on Operations Research and its Applications, Beijing China (1995), 93-102.
4. E. JIANG AND P. C. B. LAM *Francis QL Algorithm for Finding the Eigenvalues of Anti-symmetric Matrices*, Numerical Mathematics, A Journal of Chinese Universities, **3**, 202-215 (1994).
3. P. C. B. LAM, J. F. WANG AND B. YAO *Bandwidth for Graphs with Merged Vertices*, Graph Theory, Combinatorics, Algorithm and Applications, eds. Y. Alavi, D. R. Lick and J. Liu, World Scientific Singapore, 137-146 (1994).
2. B. C. WEI AND P. C. B. LAM *Differential Geometric Method for Curved Exponential Families*, IMS Lecture Notes - Monograph Series: Multivariate Analysis and its Applications, eds. T.W. Anderson, K.T. Fang and I. Olkin, **24**, 461-465 (1994).
1. E. JIANG AND P. C. B. LAM *Two Kinds of Shifts Using β_2 in QL Algorithm*, Numerical Mathematics, A Journal of Chinese Universities, **1**, 49-56 (1992).