Curriculum Vitae — Yen Lee Loh

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Telephone:	(O) +44 1223 337467 (H) +44 1223 500067	Date of birth: Nationality:	11 Jan 1981 Malaysian
E-mail:	yll21@cam.ac.uk	Gender:	Male

EDUCATION

1996-2004 **Cambridge University**

2000-2004 PhD in Theoretical Condensed Matter Physics

1999-2000 MSci (Hons) in Physics: 1st Class
Major options: Solid State Physics, Theoretical Concepts, Quantum Field Theory
Minor options: General Relativity, Phase Transitions and Collective Phenomena, Information Theory/Pattern Recognition/Neural Networks
4th year project: Computer simulation of vibrations in disordered materials

1998-1999 BA (Hons) in Natural Sciences (Physics): 1st Class, joint 1st in course

1997-1998 Part IB Advanced Physics and Maths: 1st Class

1996-1997 Part IA Natural Sciences: 1st Class

1995-1996 **National University of Singapore**
1st year of BSc Physics course: A+ in all 11 modules

Jan-Jun 1995 **Prime College, Kuala Lumpur, Malaysia**

'A' Levels:	4 A's	(Maths, Further Maths, Physics, Chemistry)
'AO' Levels:	1 B	(General Paper)
STEP:	2 S's	(Mathematics I, Physics)

1990-1994 **Chong Hwa Independent High School, Kuala Lumpur, Malaysia**
Unified Examination Certificate (AO Level equivalent) 8 A's and 1 B

RESEARCH EXPERIENCE

Oct 2000-2004 **PhD course, Theory of Condensed Matter Group, Cavendish Laboratory**:

- Studied three strongly correlated electron problems, leading to publications
- Performed analytical many-body calculations as well as numerical path integral Monte Carlo simulations
- Collaborated extensively with co-workers.

June-Sep 1999 **Chemistry Department, Cambridge University, Amorphous Solids Group**

- Performed computational studies of vibrations in disordered materials
- Collaborated with group members and overseas visitors
- Wrote lattice dynamics package in C++ to meet needs of co-workers
- Analysed, implemented, and improved on existing computational methods
- Presented poster at Condensed Matter & Materials Physics (CMMP) conference in Leicester
- Published papers in Physical Review Letters and Physical Review E.

June-Sep 1998 **Rutherford Appleton Laboratory, Oxfordshire, Disordered Materials Group**

- Participated in research into improving accuracy of liquid structure determination by pulsed neutron scattering
- Carried out molecular dynamics and Monte Carlo computer simulations of water, ethanol, and supercritical fluid solutions
- Wrote and modified FORTRAN 77 code
- Submitted report as part of degree course requirements.

AWARDS AND PRIZES

2001	Admitted as Fellow of the Cambridge Commonwealth Society
2000	J J Thomson Studentship Award (Cavendish Laboratory): 1 of 2 students
	Mathison Prize for examination performance (Trinity College)
	Tessella Prize for Software
	Awarded status of Honorary Cambridge Commonwealth Trust scholar
	Overseas Research Student Award
	Internal Graduate Studentship (T.C.)
1999	Summer Research Studentship (T.C.)
	Shared Hartree and Clerk Maxwell Prize for best examination performance
1997	Senior Scholarship (T.C.) in 1st year: 1 out of 6 students
1996	British High Commissioner's Chevening Awards
1995	Elected to Dean's List for excellent results (National University of Singapore)
1995	Examination Board Prize for 'A' Level Science
1990-1994	Numerous awards in maths, science and essay competitions

ADDITIONAL SKILLS AND ACTIVITIES

Computing
- Familiar with Unix, Windows, LaTeX, Word, Excel, AutoCAD (2D & 3D)
- Proficient in C++ and Fortran 90 & 77.

Languages
- English (fluent), Mandarin (fair), Malay (fair), German (beginners').

Music
- Piano (ABRSM Grade 7 Distinction), violin, classical guitar
- Performance (concerts), composition, and arrangement
- Playing at elderly people's homes every week since 1997 as main accompanist for Betty Stubbens Musical Entertainment Group.

Interests
- Music, literature, drama, meeting people, badminton, table tennis.

Other
- Member of Student Community Action and other societies in Cambridge, and of Malaysian Mensa Society since age 5.

REFEREES

Name	Prof Peter B Littlewood	Prof Stephen R Julian	Dr Vikram Tripathi
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