

**CURRICULUM
VITAE**

**LING Han Tong
Maurice**

Personal Particulars

Name: LING Han Tong Maurice

Citizenship: Singaporean

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Languages Written: English, Chinese

Languages (Dialects) Spoken: English, Mandarin, Teochew, Cantonese, Hokkien

Summary of Experience

Research scientist and lecturer in bioinformatics with experiences in computer science, statistics and molecular biology. I have a number of experiences in presenting my work and general science bilingually (English and Mandarin) to a variety of people, including undergraduate students, scientists and non-scientists.

Summary of Qualifications

PhD (Bioinfo), BSc(Hons) (Mol Cell Biol), BSc(Comp), FIFA, MACM

Interests and Hobbies

Personal finance management, Database design and management, Database federation, Python programming, Strategic and contingency planning, Genomics and transcriptomics data analysis, Biomedical literature analysis, e-Research, Infectious diseases and wellness management, Personal tutoring and pastoral care, Career guidance, Swimming, Chinese and ancient world history, Working out in gymnasiums, Tea and coffee

Summary of Accomplishments

- Total of **27 publications: 16 peer-reviewed manuscripts** (3 as senior author, 6 as sole author, 7 as first author), 6 technical reports, 5 posters. Co-authored peer-reviewed manuscripts with 15 persons, including 7 students.
- Made **5** media appearances.
- Invited on **6** occasions to present my work to fellow scientists and students.
- Wrote 2 module syllabi in the area of sports sciences and developed the course materials.
- Current Chief Editor for **iConcept Journal of Computational and Mathematical Biology**, and Editor-in-Chief for **Methods and Cases for Computational, Mathematical and Statistical Biology**.
- Current Co-Editor-in-Chief and founding editorial member for **The Python Papers Anthology**. Authored the editorial policy of the journals under the anthology.
- Co-founded **Python User Group (Singapore)** (ROS 2060/2009, Singapore) and **PyCon Asia-Pacific**. Authored the constitution of Python User Group (Singapore).
- Provided pastoral care and academic support for 175 undergraduates and postgraduate students for a period of 2 years as **Resident Adviser and Tutor**.
- Established assessment criteria for International Fitness Association's Master Certification Programmes and awarded the title of "**IFA Senior Fellow**".
- Conducted laboratory practical for more than 1100 undergraduates as **Head Demonstrator**.
- Managed the installation and configuration of building-wide wireless access points in United Square Shopping Complex as **Systems Engineer / Integrator**.
- Directed the operations and contingency planning for a fund raising event involving more than 250 volunteers and co-ordinating emergency services over 8 operation sectors housing more than 30000 residences. Project was flagged off by a Member of Parliament and more than **SGD 30000 was raised in a single day**.

Skills Inventory

- **Technical Skills**
 - **Information Management (Computing) Skills**
 - Python programming
 - Software architecture
 - Formal specification
 - Computational/Statistical linguistics
 - Relational database design/management
 - Mac OSX/Linux administration
 - **Experimental Laboratory Skills**
 - Genomics/Transcriptomics analysis
 - Basic molecular/microbiological/culturing techniques
 - DNA fingerprinting
 - Evolutionary studies
 - Sports nutrition and exercise science
 - **Statistical Skills**
 - Experimental design
 - Parametric and non-parametric analysis
- **Transferable Skills**
 - Writing for both lay-person and professional
 - Public speaking
 - Interpretation/Translation between English and Chinese
 - Information searching and reading volumes of materials
 - Planning agenda/meetings
 - Mentoring individuals
 - Problem identification and decomposition
 - Project management and resource planning

Education

- 2004 - **Doctor of Philosophy (Science)**
2009 The University of Melbourne, Australia
Thesis: Understanding Mouse Lactogenesis by Transcriptomics and Literature Analysis
- This thesis is advised by Professor Kevin R. Nicholas (currently in Deakin University, Australia) and co-advised Associate Professors Christophe Lefevre (currently in Deakin University, Australia) and Feng Lin (currently in Nanyang Technological University, Singapore).
 - *Citation: Who developed a program for large-scale text analysis of protein-protein interactions from published literature to mine potentially novel hypotheses for the regulation of gene expression in the mammary gland of several experimental models. His work has examined the limitations of the existing text mining programs and now enables a generic and rapid survey of published data.*
 - This thesis refuted previous assumption that generic computational linguistics processor is unable to process biomedical text due to domain-specificity and attributed it to complementary parts-of-speech tag use in the shallow parsing (breaking down sentences into phrases) process.
 - This thesis confirmed that subject-verb-object structure is a suitable intermediate for extracting protein-protein interactions from text and demonstrated the flexibility of this technique in information extraction.
 - This thesis demonstrated that information extraction by computational linguistics can supplement information extraction by statistical co-occurrence.
 - Using computational and statistical information extraction, a filter representing the current state of biological knowledge was built to be used with microarray analysis for identifying potential novel hypotheses for further research.
 - This thesis examined the relevance of mouse hormone-treated mammary tissue culture in studying mouse lactogenesis by comparing the transcriptomes of cultured tissues with *in vivo* mammary tissues across the lactation cycle using Affymetrix microarrays. It concluded that the tissue culture is useful in the study of primary hormonal responses but is unlikely to be useful in studying sustained responses and the tissue culture is a useful tool to “re-construct” the set of hormonal stimuli required to simulate mouse mammary tissues into lactogenesis.
- 2008 - **Certificate in Teaching (Higher Education)**
2009 Singapore Polytechnic, Singapore
- 2005 - **Bachelor of Science (Computing)**
2007 University of Portsmouth, UK

- 2003 - **Bachelor of Science (Honours) (Molecular and Cell Biology)**
 2004 The University of Melbourne, Australia
 Thesis: Identifying the Roles of Insulin, Prolactin and Glucocorticoid in the Initiation of Murine Lactogenesis
- Advised by Associate Professor Kevin R. Nicholas.
 - A pilot project to examine the effects of each hormone in the presence of the other two hormones using cDNA microarray.
- 2002 - **Bachelor of Science (Molecular and Cell Biology)**
 2003 The University of Melbourne, Australia
- 2001 - **Advanced Diploma in Computing**
 2003 National Computing Centre, United Kingdom
 Project: InterBase Data Warehouse Builder (IB-DWB) Version 1.0
- 1996 - **Diploma in Biotechnology (General Biotechnology)**
 1999 Singapore Polytechnic, Singapore
 Project: Development of Rapid Strain Typing of Aedes Mosquitoes Adult DNA by Random Amplified Polymorphic DNA (RAPD) Technique
- Supervised by Mrs Koh Siok Im (Singapore Polytechnic) and Dr. Eric Yap (Defense Medical Research Institute, Singapore).
 - A feed-forward artificial neural network model was developed for binary strain typing of RAPD-DNA fingerprints.
 - A search in PubMed for articles published before 2000 on “artificial neural network RAPD classification” did not yield any results, suggesting that this may be pioneering work.
- 1996 - **Diploma in Computer Studies (Computer Science)**
 1997 National Computing Centre, United Kingdom
- Diploma with Credit
- 1992 - **General Certificate of Education (Ordinary Level)**
 1995 Pasir Ris Secondary School, Singapore

Awards and Scholarships

- 2005 Melbourne Abroad Traveling Scholarship, The University of Melbourne
 2005 Postgraduate Overseas Research Experience Scholarship, The University of Melbourne
- 2005 F.H. Drummond Travel Award, The University of Melbourne
 2005 Melbourne International Fee Remission Scholarship, The University of Melbourne
- 2004 Science Faculty Scholarship, The University of Melbourne
 2004 CRC for Innovative Dairy Products (PhD Scholarship)
 2003 CRC for Innovative Dairy Products (Honours Scholarship)
 1998 The Singapore Institute of Biology Essay Writing Competition

Fellowships

- 2004 IFA Senior Fellow (Fellow of International Fitness Association)
- Awarded on the work of establishing formal guidelines for the certification of Master Fitness Instructor and Senior Sports Nutritionist, supported by relevant academic qualifications and knowledge.
 - Currently involved in the certification examination of Master Fitness Instructor and Senior Sports Nutritionist

Professional and Industrial Certifications

- 2004 - **Senior Sports Nutritionist / Fitness Instructor**
current International Fitness Association

Work / Research Experience

- Feb 2010 - **Honorary Fellow**
current The University of Melbourne (Dept. of Zoology)
- Apr 2008 - **Lecturer**
current Singapore Polytechnic (School of Chemical and Life Sciences)
- Developed course materials for the following modules: (1) Introduction to biochemistry, (2) Exercise and fitness, (3) Fitness and wellness throughout the lifespan.
 - Involved in the following committee roles:
 - Oct 2009 – Mar 2010: 3rd year coordinator, Course Management Team (Diploma in Biotechnology)
 - Oct 2009 – Mar 2010: Secretary, Course Management Team (Specialist Diploma in Biotechnology)
 - Oct 2009 – current: DBT/DBS Representative, Information Technology in Teaching and Learning
 - Oct 2009 – current: DBT Representative, Alumni and Industrial Relationships
 - Oct 2009 – current: Assistant Webmaster and Sharing Session Coordinator, Public Service 21 and Communications
- Jul 2004 - **Research Assistant** (in pursuant of Ph.D (Science))
May 2009 The University of Melbourne (Dept. of Zoology)
- Thesis: Understanding the Hormonal Aspects of Mouse Lactogenesis by Transcriptomics and Literature Analysis
 - Handpicked by the Faculty of Science to be involved in the planning/organizing university-wide committee for the university's open house in Singapore (Orchard Hotel, October 2005). Only student to sit in the committee.
 - Wrote marketing materials on bioinformatics for the Faculty of Science.

- May 2006 - **Resident Adviser and Tutor**
- Mar 2008 University College, The University of Melbourne, Australia
- Providing pastoral care and academic support for 175 undergraduates and postgraduate students
 - Tutored in “Academic writing for senior science students” and “Introductory Programming in C”
- Sept 2004 - **Head Demonstrator**
- May 2005 The University of Melbourne (Dept. of Zoology)
- Lead practical classes in biology to more than 1100 first year students
 - Demonstrated for third year practical in Development Biology
- Jul 2003 - **Research Assistant** (in pursuant of B.Sc.(Hons) in Mol. Cell Biology)
- Jun 2004 The University of Melbourne (Dept. of Zoology)
- Thesis: Identifying the Roles of Insulin, Prolactin and Glucocorticoid in the Initiation of Murine Lactogenesis
 - Used explant cultures and microarray technology for gene expression profiling, and wrote a series of scripts for data analysis
 - Donated 2 files to the BioPython project (www.biopython.org)
 - Involved in numerous legal discussions with the CRC for Innovative Dairy Products on electronic data records and digital signatures
- Mar 2003 - **Research Fellow (Honorary)**
- June 2003 The University of Melbourne (Dept. of Anatomy and Cell Biology)
- Ocular Development Laboratory under Dr. Robert de Jongh.
 - Expression studies of BMP4 receptor in lens development
 - Assisted in establishing in situ hybridization techniques in the laboratory
 - Mouse handling and performed microtome sectionings.
- Feb 2002 - **System Engineer / Integrator**
- June 2002 Telford Virtual Technology Private Limited, Singapore
- Installation and configuration of building-wide wireless access points in United Square Shopping Complex for United Overseas Land Limited, governing body of United Overseas Bank (UOB), Singapore
 - Worked closely with the consultants from Parsons Brinckerhoff and IT department of United Overseas Land Limited
 - Involved in reading, understanding and fulfilling contract terms
- May 2002 - **Team Leader / Researcher** (in pursuant of Adv. Dip. in Computing)
- Jan 2003 National Computing Centre, United Kingdom
- Project: InterBase Data Warehouse Builder (IB-DWB) Version 1.0
 - Prototyped a data warehouse builder based on Borland InterBase 6
 - Resulted in a conference paper in the First Australian Undergraduate Students' Computing Conference in 2003
- Aug 1999 - **National Service (Logistics / Administrative Assistant)**
- Feb 2002 Singapore Armed Forces, Singapore

- Jun 1999 - **Laboratory Technologist (Casual)**
 Jul 1999 Defense Medical Research Institute, Singapore
- Research on myopia via SNP
 - Employed by Dr. Eric Yap, Principal Research Scientist, on basis of Final Year Project work in Singapore Polytechnic
- Sept 1998 - **Research Assistant** (in pursuant of Dip. in Biotechnology)
 Feb 1999 Singapore Polytechnic, Singapore
- Project: Development of Rapid Strain Typing of Aedes Mosquitoes Adult DNA by Random Amplified Polymorphic DNA (RAPD) Technique
 - Isolated intact genomic DNA from more than 150 mosquito larvae
 - Wrote a computer software based on supervised artificial neural network (with assistance from a friend) to analyse RAPD fingerprints
- Nov 1997 – **Laboratory Technologist (Attachment Student)**
 Dec 1998 Institute of Molecular and Cell Biology, Singapore
- Worked under Dr. Anthony Ting on cloning of rSec6/8 genes and performed yeast 2-hybrid analysis for studying vesicle trafficking
- Jan 1996 - **Relief Teacher**
 May 1996 Ministry of Education, Singapore
- Highly recommended by ex-teachers in Gongshang Primary School, Singapore (my alma mater) over a period of 5 months.

Positions Held

- Apr 2010 - **Editor-in-Chief**
 current **Methods and Cases in Computational, Mathematical and Statistical Biology**
 Nova Publishers
- Mar 2010 - **Chief Editor**
 current **iConcept Journal of Computational and Mathematical Biology**
 iConcept Press Ltd
- Mar 2010 - **Technical Reviewer**
 current Packt Publishing
- July 2009 **Conference Co-Chair and Publications Co-Chair**
 - current PyCon Asia-Pacific
- Co-edited the Proceedings of PyCon Asia-Pacific 2010 as The Python Papers Monograph Volume 2.
- June 2009 **Vice-President**
 - current Python User Group (Singapore) (ROS 2060/2009, Singapore)
- Co-founder of the society and drafted the constitution for submission to Registry of Societies, Ministry of Home Affairs, Singapore.

- Oct 2008
- current
- Architect and Project Director**
Cyber Laboratory Notebook (CyNote) (<http://cynote.sf.net>)
- CyNote aims to be a electronic research record management system that conforms to record-keeping standards of physical notebooks based on 3 principles:
 - (1) Notebooks can be setup for encryption and routine backup on secured data centres (such as Amazon S3),
 - (2) Date-time stamping of notebooks are performed by remote systems (immediate date-time stamp upon upload),
 - (3) Page edits are generally disallowed. However, if page edits are forcefully done, it will be tracked and date-time stamped using source code management systems (such as Subversion)
 - At the same time, research tools can be developed as plugins into CyNote and records can be tracked immediately; thus, saving the effort in transposing data across systems.
 - CyNote is my brainchild and I am in-charge of the entire software design and implementation.
- Apr 2008-
current
- Co-Editor-in-Chief**
The Python Papers Anthology
incorporating The Python Papers (ISSN 1834-3147), The Python Papers Monograph Series (ISSN 1837-7092), and The Python Papers Source Codes (ISSN 1836-621X)
- My key achievements includes:
 - (1) Proposing the establishment of The Python Papers Source Codes (ISSN 1836-621X), The Python Papers Monograph (ISSN 1837-7092), and the umbrella entity The Python Papers Anthology.
 - (2) Getting The Python Papers Anthology fully indexed in OAIster.
- July 2007
- current
- Committee Member**
Firebird Foundation (Incorporation Number: INC9878828, Australia)
- Jan 2004
- current
- Architect and Project Director**
Open DataWarehouse Builder (OpenDWS) (<http://opendws.sf.net>)
- OpenDWS started as InterBase DataWarehouse Builder (IB-DWB), a prototype of a data warehouse builder for Borland InterBase 6 Open Edition that I've worked on for my Advanced Diploma in Computing project, following key aims in mind:
 - (1) The source databases can be heterogeneous (not tied to a specific database management system)
 - (2) Distributed deployment (a single installation of OpenDWS can span multiple hardware systems)
 - (3) Ad hoc distributed processing (ability to use multiple ad hoc hardware for computation tasks)
 - (4) Plug-in system for analysis and processing features
 - I am in-charge of the architectural decisions and administration of this project.

- May 2006 - **Associate Editor (Founding Editorial Member)**
- Apr 2008 The Python Papers (ISSN 1834-3147)
- My responsibilities include chairing peer-reviews of academic submission and I am responsible for authoring the review policy of the journal
- Nov 2002 - **Publication Team Member** (ISBN 0-646-4275-1-2)
- Nov 2003 Australian Undergraduate Students' Computing Conference 2003
- Jan 2001 - **Operations Manager (Advisory)**
- Jun 2001 Fund Raising Project for Gujarat Earthquake Relief
- Project was flagged off by a Member of Parliament and more than SGD 30000 was raised in a single day
 - I was the director of operations and contingency planning on the day of event, managing more than 250 volunteers and coordinating emergency services over 8 operation sectors housing more than 30000 residences
- Dec 1997 - **Manpower Vice-Chairperson**
- Apr 1999 Singapore Polytechnic Poly Peers (Peer Support Group)
- Dec 1996 - **Deputy S1 (Administration Officer)**
- Jul 1999 Cadet Lieutenant promoted to Senior Cadet Lieutenant in 1996
National Cadet Corp, Singapore
- In charge of the routine administration of a unit and co-ensuring that training and administrative objectives are met.
 - In charge of more than 600 trainees, junior officers and military trainers in training camps in 1996, and co-authorizing the issue of firearms (M16S1) for training.

Professional Memberships

- 2000 - 2008 Association of Computing Machinery (Student Member)
- 2008 – current Association of Computing Machinery (Professional Member)
- 2009 – current Python User Group (Singapore)
- 2010 – current Institute of Mathematical Statistics

Media Appearances

- 2006 The Age, A2 Section (Australia)
- Julie Szego (journalist) on academic writing for the general public (knowledge transfer), entitled “Academic Idyll” in the A2 Section of The Age, 18 Nov 2006 (page 24-25)
- 2006 Straits Times (Singapore)
- Ling Yeo (journalist) on connecting overseas Singaporeans back home by infocomm, special section on e-government, entitled “At home abroad” in Tuesday 30 May 2006 issue (page S18).

- 2006 The Australian Financial Review
- Geoff Maslen (journalist) on an article in the weekly section on education, entitled “Centres link postgrads with industry – Research powered by overseas helpers”, in the Monday 8 May 2006 issue of the Australian Financial Review (page 34).
- 2006 Australian Education: Passport to a global career (ISBN 1-921156-12-0)
- Appeared and quoted in page 92, chapter on Research: cooperation and innovation
- 2003 The Australian Undergraduate Students' Computing Conference
- Sue Slamen and Barry Clarke (presenters) and Suresh Gnasegarah, Ioanna Ioannou, Maurice Ling, Ben Rubinstein and Vanessa Smith (interviewees), (half-hour interview as part of a 13-part educational radio series for broadcast over the Asia-Pacific region), SMART SOCIETIES, ABC Radio National.

Peer-Reviewed Publications

- [In review] **Ling, MHT**, Menzies, K, Lefevre, C, Nicholas, KR. 2010. The Transcriptomics of Lactogenesis in the Murine Mammary Explant Model; Comparison with In Vivo Data.
- [In review] **Ling, MHT**. 2010. Specifying Behaviour of Python Programs: Language and Basic Examples.
- [In review] Chay, ZE, **Ling, MHT**. 2010. COPADS, II: Chi-Square test, F-Test and t-Test Routines from Gopal Kanji's 100 Statistical Tests.
- [In review] Chay, ZE, Lee, CH, Lee, KC, Oon, JSH, **Ling, MHT**. 2010. Russel and Rao Coefficient is a Suitable Substitute for Dice Coefficient in Studying Restriction Mapped Genetic Distances of Escherichia coli.
- Ling, MHT**. 2010. COPADS, I: Distances Measures between Two Lists or Sets. The Python Papers Source Codes 2: 2.
- (Book chapter) **Ling, MHT**, Lefevre, Christophe, Nicholas, KR. 2010. Mining Protein-Protein Interactions from Published Abstracts with MontyLingua. To appear in Zhongming Zhao (ed). Sequence and Genome Analysis: Methods and Applications. iConcept Press Pty Ltd.
- (Book chapter) **Ling, MHT**, Lefevre, Christophe, Nicholas, Kevin R. 2009. Biomedical Literature Analysis: Current State and Challenges. In B.G. Kutais (ed). Internet Policies and Issues, Volume 7. Nova Science Publishers, Inc.
- Ng, YY, **Ling, MHT**. 2010. Electronic Laboratory Notebook on Web2py Framework. Accepted.
- Lee, CH, Lee, KC, Oon, JSH, **Ling, MHT**. 2010. Bactome, I: PCR-RFLP Primer Selection and Analysis of Fingerprint Features. Accepted.
- Chia, CY, Lim, CWX, Leong, WT, **Ling, MHT**. 2010. High Expression Stability of Microtubule Affinity Regulating Kinase 3 (MARK3) Makes It a Reliable Reference Gene. IUBMB Life 62(3): 200-203.
- Ling, MHT**. 2009. Understanding Mouse Lactogenesis by Transcriptomics and Literature Analysis. Doctor of Philosophy. Department of Zoology, The University of Melbourne.
- Kuo, CJ, **Ling, MHT**, Lin, KT, Hsu, CN. 2009. BIOADI: A Machine Learning Approach to Identify Abbreviations and Definitions in Biological Literature. BMC Bioinformatics 10(Suppl 15):S7
- Ling, MHT**. 2009. Ten Z-test Routines from Gopal Kanji's 100 Statistical Tests. The Python Papers Source Codes 1:5
- Ling, MHT**. 2009. Compendium of Distributions, I: Beta, Binomial, Chi-Square, F, Gamma, Geometric, Poisson, Student's t, and Uniform. The Python Papers Source Codes 1:4
- Ling, MHT**, Lefevre, C, Nicholas, KR. 2008. Filtering Microarray Correlations by Statistical Literature Analysis Yields Potential Hypotheses for Lactation Research. The Python Papers 3(3): 4.
- Ling, MHT**, Lefevre, C, Nicholas, KR. 2008. Parts-of-Speech Tagger Errors Do Not Necessarily Degrade Accuracy in Extracting Information from Biomedical Text. The Python Papers 3 (1): 65-80
- Ling, MHT**, Lefevre, C, Nicholas, KR, Lin, F. 2007. Re-construction of Protein-Protein Interaction Pathways by Mining Subject-Verb-Objects Intermediates. In J.C. Ragapakse, B. Schmidt, and G. Volkert (Eds.), Proceedings of the Second IAPR Workshop on Pattern Recognition in Bioinformatics (PRIB 2007). Lecture Notes in Bioinformatics 4774. (pp. 286-299) Springer-Verlag.
- Ling, MHT**. 2007. Firebird Database Backup by Serialized Database Table Dump. The Python Papers 2 (1): 12-16.

- Ling, MHT.** 2006. An Anthological Review of Research Utilizing MontyLingua, a Python-Based End-to-End Text Processor. *The Python Papers* 1 (1): 5-12.
- Ling, MHT** and So, CW. 2003. Architecture of an Open-Sourced, Extensible Data Warehouse Builder: InterBase 6 Data Warehouse Builder (IB-DWB). In Rubinstein, B. I. P., Chan, N. & Kshetrapalapuram, K. K. (Eds.), *Proceedings of the First Australian Undergraduate Students' Computing Conference*. (pp. 40-45).

Monographs and Collections

- Ling, MHT** and Li, MQA (ed). 2010. *Proceedings of PyCon Asia-Pacific 2010. The Python Papers Monograph 2*.

Technical Reports

- Lee, CH, Lee, KC, Oon, JSH, **Ling, MHT**. 2010. Evolution Characterization of *Escherichia coli* using RFLP DNA Fingerprinting. Diploma in Biotechnology Final Year Project. School of Chemical and Life Sciences, Singapore Polytechnic.
- Teo, DCT, Lee, N, Tham, C, **Ling, MHT**. 2010. Health Benefits of the Sun and Yang Styles of Tai Chi: A Questionnaire Study. Specialist Diploma in Nutrition and Health Promotion Project. School of Chemical and Life Sciences, Singapore Polytechnic.
- Chia, CY, Lim, CWX, Leong, WT, **Ling, MHT**. 2009. Identification of Transcriptionally Invariant Genes in Mouse Liver from Microarray Data. *Proceedings of the 15th Youth Science Conference*. Singapore.
- Ng, JPH, Ong, YC, **Ling, MHT**, Xu, WJ. 2009 Properties of Histatin 5. *Proceedings of the 15th Youth Science Conference*. Singapore.
- Ling, MHT**. 2002. Identifying the Roles of Insulin, Prolactin, and Glucocorticoid in the Initiation of Murine Lactogenesis. Bachelor of Science (Degree with Honours) Thesis. Department of Zoology, The University of Melbourne, Australia.
- Chia, YC, **Ling, MHT**, Wong, ECK, Yap, E, Koh, SI. 1999. Development of Rapid Strain Typing of *Aedes* Mosquito by Random Amplified Polymorphic Typing Adult DNA (RAPD). Diploma in Biotechnology Final Year Project Report. Department of Chemical Process and Biotechnology, Singapore Polytechnic.

Abstracts and Posters

- Lee, CH, Oon, JSH, Lee, KC, **Ling, MHT**. 2010. *Escherichia coli* Adapts to Food Additives within 180 Generations. Singapore Society of Biochemistry and Molecular Biology Young Scientists' Symposium 2010. Singapore Science Centre, 12th March 2010.
- Ling, MHT**. 2010. Recipe 577003: Extending anydbm with marshal. *ActiveState Python Cookbook*. [<http://code.activestate.com/recipes/577003>]
- Kuo, CJ, **Ling, MHT**, Hsu, CN. 2009. Applying lazy local learning in BCII.5 article categorization task. BioCreative II.5 Workshop Special Session on Digital Annotations. Centro Nacional de Investigaciones Oncologicas, Spain. 7-9 October 2009.
- Lim, MH, Quek, SG, Teoh, EJM, **Ling, MHT**, Chan, CY. 2009. Protein profiles of bacteria under short term and long term exposure to environmental stress. Young Scientists' Symposium. Singapore Science Centre. 6th March 2009.
- (Invited talk) **Ling, MHT**. 2008. A tour of bioinformatics. Freshman Seminars 2008 – A

- Guided Tour in Science. Faculty of Science, National University of Singapore.
- (Invited talk) **Ling, MHT**. 2007. Re-constructing protein-protein interaction networks using text mining (for understanding microarray analyses). Institute of Information Science, Academia Sinica, Taiwan (R.O.C)
- (Invited talk) **Ling, MHT**. 2006. MontyLingua (and ConceptNet) to simplify natural text processing tasks. Proceedings of the Open Source Developers Conference 2006.
- Ling, MHT**, Lefevre, C, and Nicholas, KR. 2006. A Pipeline for Analysis of Published Abstracts for Information on Protein-Protein Inter-Relations. Proceedings of the Fourth Asia-Pacific Bioinformatics Conference.
- (Invited talk) **Ling, MHT**. 2006. Functional modeling of mouse lactation using published abstracts and text mining. Language Technology Seminar Series. Department of Computer Science and Software Engineering, The University of Melbourne, Australia.
- Ling, MHT**, Lefevre, C, and Nicholas, KR. 2005. Mosirium: A Modelling and Simulation Tool for Lactation in the Mouse. Proceedings of the Third Asia-Pacific Bioinformatics Conference.
- (Invited talk) **Ling, MHT**. Molecular Pathways from Text. Engineering and Science Seminar 2005, The University of Melbourne
- (Invited talk) **Ling, MHT** and Loke, JY. 2003. Expert Systems: Development and Current Utility (Tutorial, Extended Abstract). In Rubinstein, B. I. P., Chan, N. & Kshetrapalapuram, K. K. (Eds.), Proceedings of the First Australian Undergraduate Students' Computing Conference. (pp. 121).

Recommendations Received

In addition to Letters of References, the following *ad hoc* recommendations were received and noted in my LinkedIn profile (<http://www.linkedin.com/in/mauriceling>):

Maurice has worked with me as a senior as well as friend. Maurice is a well-knowledgeed lecturer that never failed to interest me with new ideas and knowledge. He has a very strong determination towards his goals and is highly respected by many students for his devotion towards research and teaching. Maurice would offer his help to any students or colleagues who have unresolved issues or questions. Maurice has real leadership potential. I would highly recommend him for any organisation that he can offer his expertise to.

**Thaddeus Ong, Student, Singapore Polytechnic
worked indirectly for Maurice at Singapore Polytechnic**

Maurice possesses strong interest in scientific research that is not limited to bioinformatics but a large variety of fields. He is intellectual and is a hard worker who often showed interest and gave interesting suggestions on my research in molecular biology. Maurice works efficiently, with integrity and is well organized such that he produces results and publications in a timely fashion as demonstrated by his outstanding publication output. His talent extends beyond research in his ability to explain difficult concepts in a comprehensive fashion to a variety of audience (science and non-science); this was well noted by myself and other academics during his Ph. D progress talk in which he gave an excellent presentation to an audience with little knowledge of bioinformatics.

**Phil Au, Ph. D candidate, University of Melbourne
worked with Maurice at University of Melbourne**

Maurice has been a great friend and mentor. He is highly enthusiastic and professional in his work, capable of bringing out people's potential and drive them to their fullest capacity. His great help is not limited to academics, but also research and the furthering of my studies in university. Truly, he has made a positive impact in my life, including my peers. He is invaluable to any organization that requires his expertise.

**Chay Zhu En, Research Assistant, Singapore Polytechnic
worked directly with Maurice at Singapore Polytechnic**

As the organiser of a nation wide programming language conference in India, I know every aspect of the whole process. Maurice and his colleagues did an incredible job organising the first PyCon in the APAC region. Everything from the quality of presentations, the organisation of the venue, the contacts made from other APAC countries were flawless. His attention to detail and strict control of the proposals submitted were instrumental in making the conference as high quality as it was.

**Noufal Ibrahim, Organiser, PyCon India
was with another company when working with Maurice at PyCon Asia-Pacific**

Maurice is my tutor in my third year study in Singapore Polytechnic, Diploma in Biotechnology. He is intelligent, conscientious, creative, displays strong analytical skills and logical thinking. Besides, he has a modest and pleasant personality and is well liked by students. During his lessons, he is always well-prepared and gives his presentation effectively to the students. He also shares the experiences of his past projects with us which will broaden our field of knowledge. In addition, Maurice is able to communicate well with his students and he is very resourceful and willing to share his time with students to clarify any doubts or questions that we encountered during lessons or in the projects. It is a very good experience to work and learn from Maurice. Maurice

is a highly-respected lecturer in Singapore Polytechnic.

Issac Too , Student , Singapore Polytechnic

worked directly with Maurice at Singapore Polytechnic

I have worked with Maurice Ling on his open-source datawarehousing suite. During the time, I have found Maurice to possess strong capability as a thought leader, and at the same time a visionary. Maurice's analytical and algorithm-problem solving skill, coupled with his can-do attitude has always amazed me. Given the opportunity, I would always like to work with him again. I strongly endorse him as I believe he will be an extremely valuable asset to any corporate or scientific organization that he will join.

Michael Loke, Senior Software Engineer, Accenture Australia

worked directly with Maurice at Australian Undergraduate Students' Computing Conference 2003

In 2007, I had the pleasure of working with Maurice at the University College as part of a team of Resident Advisors. Maurice is a goals oriented person with a positive and cheerful disposition. In times of trouble one can count on Maurice's support. There was an incident where power was knocked out one night while I was on duty and the security of the residence was compromised since the main doors were open. Maurice was my steadfast companion, providing repast and light relief throughout the night. Maurice has a wide range of interests from finance to biology and his conversations are always thought provoking and insightful.

Shelly Rodrigo, Resident Advisor, University College

worked directly with Maurice at University College, The University of Melbourne

I have used Maurice as a tutor and found him to be very conscientious, and totally dependable. He is able to communicate well with his tutorial group. Maurice is generous with his time, and has provided a lot of individual support to students resident in the College. Maurice's has also given seminars to the students and senior staff. He is always well-prepared and pitches his presentation appropriately to his audience. Maurice is a highly-respected member of the community of University College.

Marie McKee, Dean of Studies, University College

managed Maurice at University College, The University of Melbourne

Maurice was a Resident Adviser (RA) for from May 2006 until March 2008. This position included duties such as ensuring the security of the College buildings at night, informal mentoring of students and pastoral care of students. He was a most reliable RA, always on time for duty and very accommodating with duties for other RAs with challenging academic or social timetables.. He frequently attended both Monday and Tuesday High Tables and I came to rely on him to be there in the Senior Common Room before the arranged time and thus there was always someone to greet the apartment guests and students and to offer them refreshments. Maurice was meticulous in carrying out his duties and could be relied upon to provide a succinct but useful report for administration personnel. He interacted with a range of students and became an informal mentor to a number of them. Following on from these interactions he was able to highlight areas in which the College could provide further assistance to students. At the same time Maurice developed collegial relationships with several of our academic visitors, exchanging ideas and maintaining correspondence with academics from diverse areas of scholarship. Maurice presented aspects of his academic work at seminars on two occasions at University College and the ensuing discussions were most appreciated by the audiences. He proved to be a valuable member of staff.

Genevieve Leach, Director of College Welfare, University College, The University of Melbourne
managed Maurice at University College, The University of Melbourne

I worked with Maurice in establishing and organising the Australian Undergraduate Students' Computing Conference, one of the first conferences of its kind in promoting undergraduate IT research. Maurice brings a powerful combination of professionalism, creativity and energy to his role in bringing together AUSCC and creating success in its inaugural year. He also played a very important role in laying down a solid foundation for AUSCC move forward and driving its success in the years to come.

Mark Shen, Finance Officer, Australian Undergraduate Students' Computing Conference 2003
worked directly with Maurice at Australian Undergraduate Students' Computing Conference 2003

Maurice is very capable - in both a written and an oral setting - of effectively communicating quite complex research ideas to a non-specialist audience. As a speaker and writer he can be very engaging when dealing with his audience, again to great effect. And he is always prepared to be creative and inventive in deciding upon the content and delivery mechanisms to be used.

Simon Clews, Director, Writing Centre - Melbourne University
worked directly with Maurice at University of Melbourne

Maurice has been an invaluable member of the editorial board at The Python Papers. He has both helped me complete specific tasks which I have assigned and also taken ownership of high-level tasks and worked on them to completion. Specifically, he has done a lot of the work which relates to the academic content of The Python Papers. Without him this would not have been achievable. He is a diligent worker, and a valued colleague.

Tennessee Leeuwenburg, Editor-In-Chief, The Python Papers
managed Maurice at The Python Papers