



STAFF ACADEMIC PROFILE

Dr. Ada S. F. Ng

BSc Curtin WA, PhD CUHK

Lecturer, Institute of Transport and Logistics Studies

Contact

C37 - Institute of Transport and Logistics Studies (311), Faculty of Economics and Business
The University of Sydney, NSW 2006, Australia
Phone: 61-2-93510095
Fax: 61-2-93510088
E-mail: suk.ng@sydney.edu.au

Academic Qualifications

- **PhD in Systems Engineering and Engineering Management**, The Chinese University of Hong Kong, Hong Kong, (China), 2001.
- **Bachelor of Science (Mathematics and Computing) with First Class Honors**, Curtin University of Technology, Australia, 1997.

Professional Qualifications/Memberships

- Main member representing ITLS, Friends of LAA, Logistics Associate of Australia (LAA), Australia, 2009 - present.
- Member, National Committee for Transport, Australia, 2009 - present.
- Acting Chair, Sydney Transport Panel, Australia, 2009.
- Committee member, Sydney Transport Panel, Australia, 2007 - present.
- Member, Institute for Operations Research and the Management Sciences (INFORMS), United States, 1999 - present
- Member, Eastern Asia Society of Transport Studies (EASTS), 2007 - 2008.

Brief Biography

Dr Ada Suk-Fung Ng is a Lecturer in Logistics and Supply Chain Management at Institute of Transport and Logistics Studies (ITLS). Before joining ITLS, she was an Assistant Professor of the department of Transportation and Logistics, Malaysia University of Science and Technology (MUST). She received her PhD from the Chinese University of Hong Kong and BSc from Curtin University of Technology in Western Australia. After her PhD, she was awarded the Croucher Fellowship (2002 – 2003) from the Croucher Foundation of Hong Kong for doing a research project in the Laboratoire d'Informatique (Lix) of Ecole Polytechnique in France. She is interested in operations research and combinatorial optimisation. Her current research interests are maritime logistics, distribution network design, location problems, vehicle routing and manpower scheduling.

Awards and Honours

- Croucher Fellowship, For doing a research project in the Laboratoire, Croucher Foundation of Hong Kong, d'Informatique (Lix) of Ecole Polytechnique in France 2002-2003, 2002.

Employment Record

Current Appointment at the Faculty of Economics and Business, University of Sydney

- Lecturer, Institute of Transport and Logistics Studies.

First Appointment at the Faculty of Economics and Business, University of Sydney

- Lecturer, Institute of Transport and Logistics Studies, 2007.

Previous Employment Experience

- Assistant Professor, Department of Transportation and Logistics, Malaysia University of Science and Technology (MUST), Malaysia, 2004 - 2007.
- Post-doctoral Fellow, Department of Systems Engineering and Engineering Management, Chinese University of Hong Kong, Hong Kong, (China), 2004.
Research on the project 'Manpower Planning and Scheduling with Workforce Flexibility', 2004.
- Lecturer, Hong Kong Computer Institute, Hong Kong, (China), 2003.
- Post-doctoral Researcher, Ecole Polytechnique, Laboratoire d'Informatique, France, 2002 - 2003.
'Inter-network routing and Pricing Policy on the Telecommunication Network' and 'Modeling Commercial Processes and Customer Behaviors to Estimate the Diffusion Rate of New Products'
- Graduate Assistant (Tutoring), Department of Systems Engineering and Engineering Management, The Chinese University of Hong Kong, Hong Kong, (China), 1998 - 2001.

Teaching at the Faculty of Economics and Business, University of Sydney

Postgraduate Level

- Lecturer TPTM6200 Maritime Logistics, Institute of Transport and Logistics Studies (2008 - present).
- Lecturer TPTM6310 Project Management in Supply Chains, Institute of Transport and Logistics Studies (2007 - present).

Student Supervision (Honours and Research)

- Primary Supervisor of San Nan Sze, 2007 - present.
PhD, Thesis Topic: Scheduling Model for the In-flight Catering Service.
- Primary Supervisor of Montathip CHANPUM, 2008 - present.
Masters (Research), Thesis Topic: Empty container management in the context of international supply chains
- Secondary Supervisor of ELIZABETH ANN BARBER, 2009 - present.
PhD, Thesis Topic: Strategic issues in supply chain management.
- Secondary Supervisor of HSIN-CHI LU, 2009 - present.
Masters (Research), Thesis Topic: TBC.
- Secondary Supervisor of JEFFREY NEWTON, 2009 - present.
Masters (Research), Thesis Topic: TBC.
- Secondary Supervisor of YUJIE CAI, 2009 - present.
Masters (Research), Thesis Topic: Supply chain interaction and overlap.
- Secondary Supervisor of Richard Ellison, 2010 - present
Masters (Research), Thesis Topic: TBC.
- Secondary Supervisor of Adrian Ellison, 2010 - present.
Masters (Research), Thesis Topic: TBC.
- Secondary Supervisor of Chi-Hong Tsai, 2010 - present.
Masters (Research), Thesis Topic: TBC.
- Secondary Supervisor of QUOC CHINH HO, 2010 - present.
Masters (Research), Thesis Topic: TBC.

Service to the Faculty of Economics and Business, University of Sydney

- Co-coordinator of higher degree in research in ITLS
- Discipline library liaison

Contributions to Academic, Professional and Community Organisations

Reviewer of the following journals

- Transportation Science
- International Journal of Production Economics
- International Journal of Service Operations and Informatics
- Computers and Operations Research
- IIE Transactions
- Naval Research Logistics
- International Journal of Physical Distribution and Logistics Management

Research Expertise

- Vehicle Routing
- Network Design Problems
- Location Problems
- Maritime Logistics
- Productivity Analysis
- Supply Chain Management
- Operations Management
- Scheduling Optimization
- Combinatorial Optimization
- Port development

External Research Grants, Contracts, Consulting

- ‘Competitive Factors for Regional Container Hub Port: A case Study in East Asia’ (2006)
Malaysia E-Science Fund

Internal Faculty Research and Conference Grants

- Project Title: A Zoning Problem with Response-time
Grant Title: Faculty Research Grant, Round 2, 2008
Granting body: Faculty of Economics and Business, University of Sydney
Funding Levels, by year: AUD8,000 (from January 2009 to July 2009)
- Project Title: A Two-stage Scheduling Model for the In-flight Catering Service (With Dr. Daniel Oron)
Grant Title: Faculty Research Grant, Round 1, 2008
Granting body: Faculty of Economics and Business, University of Sydney
Funding Levels, by year: AUD12,000 (from July 2008 to Dec 2008)
- Project Title: Heterogeneous Pickup and Delivery Routing Problem with Total Route Time Constraint
Grant Title: Faculty Research Grant, Round 2, 2007
Granting body: Faculty of Economics and Business, University of Sydney
Funding Levels, by year: AUD11,200 (from Jan 2007 to July 2008)
- Project Title: Competitive Factors for Regional Container Hub Port: A case Study in East Asia
Grant Title: Malaysia E-Science Fund
Granting body: Ministry of Science, Malaysia
Funding Levels, by year: RM83,000 = AUD28,174 (from Dec 2006 to Aug 2007)

Publications and Other Scholarly Contributions

2010

Journal

- **Ng, A., Lim, A.L.C., Leong, C.H. and Cheng, C.H.** (2010 forthcoming) 'A competitive measurement framework for regional container hub ports: A case study in East Asia', *International Journal of Logistics Systems and Management*, vol. 6, no. 6.

2009

Conference Paper

- **Ng, A.** (2009) 'A matching and pairing based heuristic for scheduling in-flight catering service', *23rd European Conference on Operational Research*, Bonn, Germany, 5 - 8 July.

Conference Proceeding

- **Oron, D., Sze, S.N. and Ng, A.** (2009) 'Improved two-stage heuristic for the In-flight Catering Delivery Problem with Time Windows', *Proceedings of the 10th Asia Pacific Industrial Engineering and Management Systems Conference APIEMS 2009*, Kitakyushu, Japan, 14 - 16 December.

2008

Conference Proceeding

- **Oron, D., Sze, S.N. and Ng, A.** (2008) 'A Heuristic Manpower Scheduling for In-Flight Catering Service', *Transportation and Management Science-13th International Conference of Hong Kong Society for Transportation Studies 2008*, Hong Kong, China, 13 - 15 December.
- **Ng, A., Deng, X.-P. and Wang, X.** (2008) 'Productivity Change of Chinese Mainland Logistics Companies: Using DEA Malmquist Productivity Change Index', *13th International Conference of Hong Kong Society for Transportation Studies 2008 - Transportation and Management Science*, Hong Kong, (China), 13 - 15 December.

2007

Journal

- **Ng, A. and Lee, C.X.** (2007) 'Productivity Analysis of Container Ports in Malaysia: A DEA Approach', *Journal of the Eastern Asia Society for Transportation Studies*, vol. 7, pp. 2940-52.

Conference Paper

- **Ng, A. and Lee, C.X.** (2007) 'Productivity Analysis of Container Ports in Malaysia: A DEA Approach', *7th International Conference of Eastern Asia Society for Transportation Studies*, Dalian, China, 24 - 27 September.

Conference Proceeding

- **Ong, M.K. and Ng, A.** (2007) 'Heterogeneous Truck Routing Policies: Case Study of A Malaysian Trucking Company', *The 12th International Conference of Hong Kong Society for Transportation Studies*, Hong Kong, China, 8 - 10 December.
- **Wong, M.K. and Ng, A.** (2007) 'A Manpower Recovery Decision Support System with Time Window and Skill Restrictions', *2007 International Conference on Service Systems and Service Management*, Chengdu, China, 9 - 11 June.

2005

Journal

- **Bloch, A., Krob, D. and Ng, A.** (2005) 'Modeling Commercial Processes and Customer Behaviors to Estimate the Diffusion Rate of New Products', *Journal of Systems Science and Systems Engineering*, vol. 14, no. 4, pp. 436-453.

Conference Proceeding

- **Krob, D. and Ng, A.** (2005) 'Understanding the Diffusion Rate of New Products Through a Simple Customer Behavior Model', *The Second IEEE International Conference on Services Systems and Services Management ICSSS05*, ChongQing, China, June.

2004

Journal

- **Ng, A., Sastry, T., Leung, J. and Cai, X.** (2004) 'On the Uncapacitated K-commodity Network Design Problem with Zero Flow-costs', *Naval Research Logistics*, vol. 51, no. 8, pp. 1149-1172.

2002

Conference Paper

- **Ng, A., Guillaume, J.-L. and Latapy, M.** (2002) 'Clique Decomposition on Small-World Graphs', *INFORMS*, San Jose, 2002.

2001

Conference Proceeding

- **Ng, A., Leung, J. and Cai, X.** (2001) 'Uncapacitated Multicommodity Network Design Problem with Zero Flow Cost', *5th International Conference on Optimization: Techniques and Applications (ICOTA 2001)*, 2001.

2000

Conference Paper

- **Ng, A., Leung, J. and Cai, X.** (2000) 'A Set-Covering-Based Heuristic for Districting Problems with Service-Time Constraints', *INFORMS*, San Antonio, United States, 2000.

- **Ng, A., Leung, J. and Cai, X.** (2000) 'A Graph-Coloring-Based Algorithm for Districting Problems with Service-Time Constraints', *INFORMS*, Salt Lake City, United States, 2000.