

Dr. Danny POO Chiang Choon

Associate Professor, School of Computing, National University of Singapore (dpoo@comp.nus.edu.sg)

Assistant Dean, School of Computing, National University of Singapore

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A. BRIEF BIODATA

Dr. Danny Poo graduated with a BSc (Honours), MSc and PhD in Computer Science from the University of Manchester Institute of Science and Technology (UMIST), United Kingdom. He is currently a tenured Associate Professor and Assistant Dean at School of Computing, National University of Singapore (NUS), and is also a Director and Co-Founder of an NUS spin-off company, Cicada Cube Pte Ltd since 2000. Cicada Cube specializes in enterprise-level Information Search and Retrieval solutions.

Dr. Poo has extensive experience in Software Engineering, Information Management and Knowledge Management, both in the technical and managerial levels. He teaches Software Engineering at NUS and has carried out wide-ranging research and published extensively in the areas of Effective Search Strategies, Relevance Ranking and Feedbacks, Electronic Referencing, Meta-Data, Taxonomy Generation, Information Sharing, Knowledge Management Portals, Learning Algorithms, Object-Oriented Software Engineering, and Software Systems Maintenance. Over the years of research, Dr. Poo has acquired vast experience and knowledge in the area of search and retrieval solutions. He developed a technology that enhances the quality of searches. That technology is now commercialized by Cicada Cube Pte Ltd, a company he founded in 2000. In addition, he has a patent pending in the area of website filtering technique.

Dr. Poo has consulted for local and multi-national companies including: OCBC Bank, Rhodes-Schwarz, Gemplus, Tech Semiconductor, Micron Semiconductor, Monetary Authority of Singapore, Sema Group, Singapore Polytechnic, Ministry of Defence (Singapore), Port of Singapore Authority, and FTMS (Malaysia).

Dr. Poo is a much sought-after reviewer for curriculum validation and review. He recently reviewed a diploma course in Info-Comm Technology for Singapore Polytechnic.

Dr. Poo serves in the Steering Committee of the Asia Pacific Software Engineering Conference (APSEC) since 1994 and recently he was appointed Vice-Chair of the same committee. He has been invited by the Japanese Government and Fukuoka City to participate in a forum on "USA, Kyushu and Asia International Exchange Project" in 1997 and 2002.

Dr. Poo has been invited to speak in the Taxonomies Conference Singapore 2004 on the topic of "Creating a Workable Knowledge Classification System", organized by the Arkgroup Asia.

Dr. Poo is a co-author of a book on "Object-Oriented Programming and Java" published by Springer-Verlag in 1998. In 2004, he co-wrote another book on "Developing Systems Using J2EE" published by Pearson Prentice Hall.

Dr. Poo is currently involved in a large-scale project on **Knowledge Management** with funding being sourced from the Ministry of Education, Singapore.

B. CONSULTANCY EXPERIENCE

1. Study and make recommendations on Software Development Practice for OCBC Bank (Singapore)
 2. Provide Real-time Object Oriented Software Engineering consultancy to Rhodes-Schwarz.
 3. Consultancy for: OCBC Bank, Tech Semiconductor, Micron Semiconductor, Gemplus, Rhodes-Schwarz, Port of Singapore Authority, Monetary Authority of Singapore, Ministry of Defence, Singapore Polytechnic, Sema Group, FTMS (Malaysia).
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C. EMPLOYMENT HISTORY

1. **Director and Co-Founder**, Cicada Cube Pte Ltd (2000 - current).
- Cicada Cube Pte Ltd specializes in enterprise-level search and retrieval solutions.
 2. **Associate Professor**, National University of Singapore (1999-current).
- Developed a Certificate Programme in Object Oriented Software Development. Conducted research in Effective Search Strategies, Information Management, Knowledge Management, Meta-Data, Taxonomy Generation.
 2. **Assistant Dean**, School of Computing, National University of Singapore (2002-current).
 3. **Senior Lecturer**, National University of Singapore (1993-1999).
- Taught Software Engineering to undergraduates. Conducted research in Effective Search Strategies, Information Management.
 4. **Lecturer**, National University of Singapore (1988-1993).
- Developed course material and taught Software Engineering to undergraduates. Conducted research in Software Systems Maintenance and Object-Oriented Software Engineering.
 5. **Senior Tutor**, National University of Singapore (1984 - 1988).
- Received a scholarship from the National University of Singapore to pursue PhD in Computer Science at the University of Manchester Institute of Science and Technology (UMIST). Involved in teaching of Software Engineering.
 6. **Officer**, DBS Bank, Singapore (1983 - 1984).
 7. **Infantry Officer**, Ministry of Defence, Singapore (1978 - current) - part of National Service.
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D. POSITIONS HELD IN THE PROFESSIONAL COMMUNITY

1. Research Collaborator, Knowledge Management Laboratory, School of Computing (2002-present)
2. Steering Committee Member, Asia Pacific Software Engineering Conference (1994-2002)
3. Vice-Chair, Steering Committee, Asia Pacific Software Engineering Conference (2003-current)
3. Director, Cicada Cube Pte Ltd, Singapore (2000-current)
4. Member, Research Grant Review Committee, Economic Development Board, Singapore (2001-current)
5. Member, Research Grant Review Committee, National Science and Technology Board, Singapore (2001)
6. Member, Research Grant Review Committee, Research Grant Council, Hong Kong (1999-current)
7. Member, Research Grant Review Committee, City University of Hong Kong, Hong Kong (1999-current)
8. Panel Member, Curriculum Validation Committee, Singapore Polytechnic, Singapore (1999-current)
9. Lecturer, Singapore Open University, Singapore (1997-2000)

Dr. Poo has been invited to speak in the Taxonomies Conference Singapore 2004 on the topic of "Creating a Workable Knowledge Classification System", organized by the Arkgroup Asia.

Dr. Poo has also been invited by Japanese Government and Fukuoka City to participate in a forum on "USA, Kyushu and Asia International Exchange Project" in 1997 and 2002.

E. EDUCATION

- BSc (Honours) Computer Science, University of Manchester Institute of Science and Technology (UMIST), United Kingdom, 1983;

- MSc Computer Science, University of Manchester Institute of Science and Technology (UMIST), United Kingdom, 1985;
 - PhD, Computer Science, University of Manchester Institute of Science and Technology (UMIST), United Kingdom, 1988.
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F. RESEARCH PUBLICATIONS

Dr. Poo is the author of two books:

- Poo, Danny C.C., Goh J.M., Tan C.W., *Developing Systems Using J2EE*, Pearson Prentice Hall, 2004.
- Poo, Danny C.C., Kiong D.B.K., *Object Oriented Programming and Java*, Springer Verlag, 1998.

Dr. Poo has published extensively in Software Engineering, Information Management and Knowledge Management. Some of his major publications include:

- Poo, Danny C.C., Goh J.M., and Chng T.Y., A Hybrid Approach to User Profiling, HICSS-36, Hawaii, USA, January 6-9, 2003.
- Goh, J.M., and Poo, Danny C.C., An Automatic Document Classification System, IASTED-Software Engineering and Applications Conference (SEA2002), MIT Cambridge USA, November 4-6, 2002.
- Poo, Danny C.C., Toh T.K., Khoo S.G., 2000. Design and Implementation of the E-Referencer, *Data and Knowledge Engineering Journal*, Vol. 32 (2000), pp. 199-218. North-Holland.
- Poo, Danny C.C., 1999. Events in Use Cases as a Basis for Identifying and Specifying Classes and Business Rules, *Proceedings of the TOOLS 29 (TOOLS Europe) Conference 1999*, 7-10 June, France, pp. 204-213.
- Poo, Danny C.C. & Lee S.Y. (1998). TarTan : Interweaving Objects with Rules in Information Systems Development, *Journal on Systems and Software*.
- Poo, Danny C.C. & Chung, M.K. (1998). Software Engineering Practices in Singapore, *Journal of Systems and Software*.
- Poo, Danny C.C., & Khoo, Christopher. (1997). Subject searching in online catalog systems. In Kent, A. (Ed.), *Encyclopedia of Library and Information Science* (vol. 60, suppl. 23, pp. 324-340). New York: Marcel Dekker.
- Poo, Danny C.C. & Lee S.Y. (1994). An Object-Oriented Systems Modelling Method based on the Jackson Method, *The Computer Journal (British Computer Society)*, Vol. 37, No. 8, pp 669-682.
- Khoo, Christopher, & Poo, Danny. (1994). An expert system approach to online catalog subject searching. *Information Processing & Management*, 30(2), pp. 223-238.
- Poo, Danny C.C. (1992). An Object-oriented Software Requirements Analysis Approach, *International Journal on Software Engineering and Knowledge Engineering*, Vol. 2, No. 1, pp 145-168, March.
- Khoo, Christopher, & Poo, Danny C.C. (1991). An expert system front-end as a solution to the problems of online catalogue searching. In *Information Services in the 90s: Congress Papers, 2-4 September 1991* (pp. 6-13). Singapore: Library Association of Singapore.

Dr. Poo is currently involved in a flagship project on Knowledge Management at the National University of Singapore with funding being sourced from Ministry of Education, Singapore. The research of the project focuses on the managerial and technical aspects of managing knowledge in large organizations.

G. CONTACT DETAILS

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