

Short CV for Anders Yeo

Anders Yeo

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- **Name:** Anders James Anthony Yeo
- **Nationality:** Australian
- **Birth date:** 14 October 1970
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- **Hobbies:** Squash (previously on the Danish national team), tennis, bridge, golf, running, mathematics and computer science.
- **Family:** Wife Angela Yeo and son Lukas Yeo (born 26-09-2008).
- **Languages:** Danish (fluent), English (fluent), Swedish (fluent), German (intermediate).

1 Education and Employment

Feb-2012 to Aug-2012: Senior Research Fellow at the University of Johannesburg, South Africa. This is a full time research position and I am able to work out of Singapore.

March-2003 to Jan-2012: Reader in computer science, Department of Computer Science, Royal Holloway, University of London, London, U.K. The academic year 2009/2010 was spent in Singapore (at the National Institute of Education) on sabbatical leave.

September-2001 to March-2003: Lecturer at the Department of Computer Science, Royal Holloway, University of London, London, U.K.

September-1999 to September-2001: Post.Doc. at the University of Aarhus, Denmark.

September-1998 to September-1999: Post.Doc. at the University of Victoria, Victoria, Canada. This was financed by the Danish Natural Science Research Council.

January-1998 to July-1998: Employed as a research assistant at Odense University.

September-1993 to December-1997: I did my Ph.D., titled "Generalisations of Tournaments", at the Department of Mathematics and Computer Science, Odense University, Denmark. (Note that the Ph.D. was on the so-called 4+4 program, which means that no masters thesis is required, but the Ph.D. is set out to take four years.)

September-1992 to September-1993: One further year of undergraduate studies at the Department of Mathematics and Computer Science, Odense University, Denmark, as required by the 4+4 Ph.D. program.

September-1989 to September-1992: I did a Bachelor at the Department of Mathematics and Computer Science, Odense University, Denmark. My bachelor project was titled "Optimal Game Strategy for Black Jack". During my undergraduate degree I submitted my first research paper titled *Selecting a Satisfactory Secretary*.

2 Administrative duties at Royal Holloway

The major administrative duties I have performed at the Computer Science Department at Royal Holloway are the following.

2010-2011: *Member of the Admissions Team.*

2006-2009: *Head of the Third Year Project Committee.*

2004-2005: *Director of Graduate Studies.*

2003-2005: *Director of Research.*

Note that due to a one year sabbatical I had no administrative duties in the academic year 2009/2010. Other administrative duties for the department have included posts such as *joint Library Representative, member (before becoming the head) of the Third Year Project Committee, Director of M.Sc. Computer Science by Research, Postgraduate Admissions and Degree Programme Director for CS with Optimisation.*

Apart from my one year sabbatical I have furthermore been the departments representative on the Science Faculty Board since early 2009.

3 Grants

I have obtained the grants listed below. Apart from these grants, I have received travel money from my collaborators grants for visits to countries such as South Africa, Denmark, USA, France, Canada and Germany.

2007-2010: Professor Gregory Gutin (PI) and myself obtained an EPSRC grant titled *Parameterized Problems on Directed Graphs*. (Approximate value £403,000).

2009: Professor Michael Henning received £10,000 from the prestigious Harry Oppenheimer Trust for the purpose of supporting the collaboration between myself and Michael Henning. It is meant to cover our respective visits to South Africa and U.K. (Value £10,000).

2008/2009: Professor Michael Henning and myself obtained a joint travel grant from The Royal Society (UK) and the National Research Foundation (SA) under their *South African - UK Network Agreement* scheme. Note that this involved a complete separate application from the previous year's grant. (Value £1,780).

2007-2008: Together with researchers from LSE and two French universities we obtained an Alliance grant under the Franco-British Partnership Programme. This is sponsored by the British Council and the French Ministry. (Approximate value £2,000 per year adding up to £4,000).

2007/2008: Professor Michael Henning and myself obtained a joint travel grant from The Royal Society (UK) and the National Research Foundation (SA) under their *South African - UK Network Agreement* scheme. (Value £1,892).

2003-2005: Professor Gregory Gutin (PI) and myself obtained a Leverhulme Trust grant titled *Domination Analysis in Combinatorial Optimisation*. (Approximate value £74,000).

1998/1999: I received a very prestigious grant from the Danish natural science research council which funded my one year Post.Doc. at the University of Victoria, Victoria, Canada. There was only 1 such grant given each year across Denmark. (Approximate value £35,000).

4 Conferences and Collaborations

I have been an invited speaker to several conferences and workshops, such as the *DREI meetings in DIMACS*, the *Oberwolfach meetings*, the *Dagstuhl meetings* and the *Danish Graph Theory Meetings*. Below I list the most recent such conferences.

Invited speaker: Dagstuhl (Germany, 8-13/07/2007), The Danish Graph Theory Meeting (Denmark, 6-9/12/2007), Graph Theory 2008 at Sandbjerg Manor (Denmark, 17-23/08/2008, where I gave one of the main invited talks) and the International Conference on Recent Trends in Graph Theory and Combinatorics (India, 12-15/08/2010).

Plenary speaker: The Erster Aachener Tag der Graphentheorie (Germany, 9/01/2004) where I gave the main plenary talk of the conference.

The 52nd annual congress of the South African Mathematical Society (South Africa, 2-4/11/2009) where I was one of the six plenary speakers.

Worker 2011 (The Third Workshop on Kernelization) in Vienna, where I am a keynote speaker.

Apart from the conferences mentioned above I regularly attend general combinatorial conferences (such as the *British Combinatorial Conference* which I attended in 2001, 2003, 2005, 2009 and 2011) and algorithm conferences (such as *OLA 2004* and *Algorithms and Complexity in Durham 2005*).

I have also been invited to visit universities in countries such as Australia, South Africa, Canada, USA, Germany and France. My most recent collaborations are with people from the University of Johannesburg (South Africa), East Tennessee State University (U.S.A), University of Southern Denmark (Denmark), University of Durham (United Kingdom), Simon Fraser University (Canada), University of Canterbury (New Zealand), Technische Universiteit Eindhoven (the Netherlands) and Royal Holloway (United Kingdom).

5 Refereeing and Editorial Memberships

In the last 5 years I have been called upon by more than 25 journals and several conferences as a referee,

I am also a section editor for the journal **Discrete Mathematics and Theoretical Computer Science** (DMTCS).

6 Publications

I have 123 papers that are published or to appear. Of these 113 are published and 10 are to appear. Of the published papers 107 are published in journals and 13 in conferences (so 7 are published in both).

See the following link for a full list of all my papers, including statistics on my co-authors and journals.

http://www.cs.rhul.ac.uk/home/anders/PAPERS/Anders_Yeo_papers_overview.html

Furthermore note that practically all the below papers are published in very strong journals, with a considerable number of the publications being in the absolute top journals in the area (such as *Combinatorica*, *Journal of Graph Theory* and *Journal of Combinatorial Theory, Series B*).

7 Teaching

Before starting at Royal Holloway in 2001 I have taught (meaning, been in charge of and lectured) the following courses:

At Odense University: Discrete Mathematics (1998).

At Aarhus University: Graph Algorithms (2000 and 2001) and Discrete Mathematics (2000).

At Royal Holloway I have taught the following courses.

- Algorithms and Complexity.
- Algorithms and Complexity I (which is based on the above course).
- Our first year C++ programming course (I taught the second term).
- Our main second year software development course. I taught and organized the second term together with Professor Fionn Murtagh.
- I taught the first half of the first term of CS1211, which was our first year Java programming course. I furthermore organised the tutorials for CS1211, which was the first year they ran.
- I designed and organised the lab-sessions for the second term of CS1801, which is our first year Java programming course.
- Computational Optimization.