

Curriculum vitae - Professor Jørgen Bang-Jensen

September 29, 2016

Personal data: Born January 19, 1960 in Odense Denmark, Danish citizen.

Degrees: Master degree in mathematics (minors in computer science and chemistry) from Odense University April 26, 1985. Ph.D (Licentiate) from Odense University, May 25, 1988. Danish Doctorate degree (highest university degree in Denmark) from University of Southern Denmark, January 18, 2002.

Positions held: Ph.D stipend from Odense University 1985 - 1988. Senior research Fellow (postdoc) at Department of Mathematics & Computer Science, Odense University 1988 - 1990. The first year was granted by SNF (now DFF-Natural Sciences) under grant no 11-7129. Assistant professor at Department of Computer Science, University of Copenhagen 1990 -1991. Associate professor, Department of Mathematics & Computer Science, University of Southern Denmark (IMADA), 1991 – 2004. Professor with special duties (collaboration with industry and public sector), IMADA, SDU 2004 – 2009. Professor in discrete optimization with applications at IMADA, SDU as of April 2009 – present.

Research interests: Discrete mathematics in particular graph theory, combinatorial optimization, algorithms, heuristics for combinatorial optimization problems, practical applications of combinatorial optimization.

Research management and funding

- Leader of three SNF (now DFF- Natural Sciences) funded research projects in the period 1992-1996. Three post docs were hired on these grants (which resulted in a large number of publications). They all went on to become full professors and very succesful researchers: Jing Huang (1 year), University of Victoria, Canada, Gregory Gutin (2 years), Royal Holloway, University of London, England and Tibor Jordán (1 year), Eötvös University, Budapest, Hungary.
- Leader of my departments research group involved in collaboration with industrial partners 2004-2009. This resulted in external support totalling more than 2 million d.kr as well as 2.5 million from SDU.
- Together with 6 colleagues at IMADA I obtained a funding of 12 million d.kr from the Danish research council for funding of PhD students in the period 2010-2013.
- Participant in FNU (now DFF-Natural Sciences) supported research projects in discrete mathematics (primarily graph theory) 1989-2016 (PI C. Thomassen, DTU). These projects have been supported by the Danish National Science Research Council since 1989. For the period 2007-2012 we received 7.4 million d.kr in support. A significant part of this funding was used on postdocs and PhD students under my supervision at IMADA. For the period 2013-2017 we got 6.5 million d.kr which, among other things finances two years salary for a PhD student under my supervision at IMADA.
- In 2009 I received funding (approximately 1 million. d.kr.) 24 months post doc positions from The Villum Kann Rasmussen foundation (block stipends). The last postdoc just finished in August 2012.
- Supervised 12 postdocs from 1992 to 2012.

- Supervised 9 Ph.D students, including one industrial Ph.D student and currently supervising 1 Ph. D student.
- Supervised 50 masters students, currently supervising 3 students.

Research achievements

- Danish doctoral degree in Natural Sciences from University of Southern Denmark, January 2002.
- Author of more than 125 research publications, almost all of which are in journals. I have written joint papers with more than 50 different researchers.
 - 1 book in 2 editions (2000 and 2009).
 - 107 peer reviewed journal papers, almost all in high ranking journals.
 - 18 extended abstracts, conference papers or contributions to problem collections.
 - 3 editorial contributions.
- Co-author of the book “Digraphs: Theory, Algorithms and Applications”, Springer Verlag, London (2000) xxii+754pp. The first book ever to treat digraphs in a comprehensive way. The second, completely revised, edition 812 pp. was published in December 2008. The book now has more than 1800 citations according to Google Scholar.
- Plenary speaker or invited speaker at conferences in Aussois, Bordeaux, Braunschweig, Budapest, Copenhagen, Dagstuhl, Elgersburg, Ilmenau, Louisville, Montreal, New Brunswick, Oberwolfach, Odense, Paris, Prague, Rostock, Strba, Vancouver and Victoria.
- Invited professor and visiting professor for periods of up to 6 months at Universities and research institutions in Canada: (Vancouver and Victoria total time 22 months), France (Bordeaux, Grenoble, Paris, Montpellier and Sophia Antipolis. Total time 22 months), Sweden (Mittag-Leffler Institute 6 weeks) and UK (London 2 months).
- External examiner on PhD or licentiate theses at Aalborg University, Aarhus University, Lund University, Université Paris XI, Orsay, Polytechnical University of Grenoble, INRIA Sophia Antipolis, France, Technical University of Denmark, Tel-Aviv University, Israel, University of Copenhagen.
- External examiner on HDR thesis (A. Pinlou) at Universite Montpellier 2, France.
- External examiner on German Habilitation thesis (Y. Guo) RWTH Aachen, Germany

Community service

- Organizer (most of the times the main organizer) of 14 international graph theory meetings in Denmark since 1990.
- Referee for all major research journals publishing papers in graph theory and several conferences in algorithmics.
- Reviewer of grant several grant applications for the research councils in France and Hong Kong.
- Editor in chief of Graph Theory section (the largest) of the electronic journal Discrete Mathematics and Theoretical Computer Science.
- Participated (in a number of cases as chair) in several hiring committees at various danish universities both in Mathematics and Computer Science for positions at all academic levels.