Research and Career Planning for Doctoral Students

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Professor Georg Gottlob
Oxford University & TU Wien
Organization

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Do not hesitate to contact us!
Important dates

Talks

• Mo, 12$^{th}$ March, 11:00 - 13:00 Room Menger

• Tue, 13$^{th}$ March, 15:00 - 17:00 Sem. Zemanek

Deadlines and presentations

• see website
General info

URL for course:
http://www.dbai.tuwien.ac.at/education/rcp/

Format:
+ seminar-style course
+ coach: prof. Gottlob
+ some written work: introduction competition
+ students give 15-20 mins presentations on selected topics
  + 10-15 mins discussion and advice
+ homework: short presentations on own research area
Introducing myself

Studies

1974-79 Math & CS at TU Wien, Logic at Uni Wien
Dipl-Ing (M.Sc.) in Computer Science in 1979
Numerical Analysis ↔ Math Linguistics
Diploma thesis: Traffic Simulation → paper → ...

1979-81 Doctoral studies at TU Wien & Uni Wien
Many-Valued Logic in CS
First paper at refereed international conference...

There was very little going on in CS research at that time...
Positions held

1 Jan. 2006 - Professor of Computing Science, Oxford University, and Fellow of St John’s College.


1982 - 1984 Consultant for of the industrial research project DATANETSAD. In 1984 Chief Consultant responsible for the development and implementation of a distributed file-server for Olivetti Microcomputers, Milano (Italy), A.R.G.-S.P.A. software company.


Short term and invited positions

- February, 2002: Visiting Professor, *Université Paris VII*
- Taught various invited course as “Prof. a Contratto” in Italy
- Spring Term, 1999: Invited McKay Professor at *University of California at Berkeley*
- February – July 1993: sabbatical at *ETH Zurich*
- Summer Terms 1985, 1986, 1987: Research Scholar at *Stanford University* and lecturer of the course *Distributed Databases* (jointly with S.Ceri)
  - host: Gio Wiederhold
Research Interests:

• Database Theory Extraction

• Data Integration, and Data Exchange

• Algorithms for semi-structured data and XML processing

• Data Extraction

• Electronic Commerce: Algorithms for games and auctions

• Graph or hypergraph based algorithms for problem decomposition

• Knowledge Representation and Reasoning

• Complexity in AI and Logic Programming

• Complexity Theory
Former Students/Postdocs now Professors

• Wolfgang Nejdl: Professor of Computer Science in Hannover
• Michael Schrefl: Prof. Univ. South Australia, Adelaide, and Linz
• Thomas Frühwirth: Professor of CS at the University of Ulm
• Gerhard Friedrich: Prof. of CS, Univ. Klagenfurt
• Marcus Stumptner: Prof. Univ. South Australia, Adelaide
• Thomas Eiter: Prof. of CS at TU Wien
• Wolfgang Slany: Prof. of CS at TU Graz
• Franz Wotawa: Prof. of CS at TU Graz
• Helmut Veith: Prof. of CS at TU Munich/TU Darmstadt/TU Wien
• Christoph Koch: Prof. of CS at Cornell University, USA
• Nicola Leone: Prof. of CS Univ. Calabria, Cosenza, Italy
• Francesco Scarcello: Prof. of CS Univ. Calabria, Cosenza, Italy
• ...
Entrepreneurial Experience
Topics for Seminar Talks

• University rankings: how they work
• Rankings of CS journals and conferences
• Roles and career models in academia
• The scientific publishing process
• The refereeing process
• Web resources for computer scientists
• Patents and intellectual property
• How to structure and write a scientific paper
• Models of research funding
• Organization, structure, and management of scientific projects
• Codes of conduct and ethics-as author, reviewer, etc
• Industrial research centers (in the USA and in Europe)
• Interaction between academia and the industry/companies
Homework

1. Write an introduction to a potential paper
   1.5 – 3 pages
   Upload it to the EasyChair System before deadline
   (Instructions will follow)

2. Act as anonymous referee for introductions till deadline
   Using EasyChair (instructions to follow)

3. Prepare a short presentation regarding research in your area
   15 minutes total time

4. Prepare your main presentation (on one of the topics)
   20 - 30 minutes
   Must be ready in the second draft
   A schedule will be given to you.
Presentation regarding research in your area

- Briefly describe the best 3 research groups worldwide in the area
- Describe how you plan to contact them and how you may co-operate with them
- Briefly describe best 3 international Conferences, journals, and workshops for the area
- Find a publication venue in your area that is not well-known in the general field of Computer Science
- Formulate a plan of how and what you want to publish in the venues described under c) in the next years
- Describe an international role model: a young successful researcher in that area (not at TU Wien)
For next time

Find your research area in the ACM Classification System:

https://www.acm.org/publications/class-2012

Fill in the form.