tit. ao. Univ.-Prof. Dr. Herbert Fleischner

Algorithms and Complexity Group
Institute of Logic and Computation
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Curriculum Vitae

1   Personal Information

- Date and place of birth: January 29, 1944, London, GB

- Nationality: Austria

- Languages: German (native), English, Russian (fluent)

2   Education

June, 1962 Graduation from high school

1962-1968 Studies in mathematics and physics at the University of Vienna

1968 Ph.D. in mathematics

3   Professional Activities

1969-1970 Assistant Professor at the Technical University of Vienna, Austria

1970-1972 Postdoc and Assistant Professor at SUNY Binghamton, NY, USA

1972-1973 Visiting Member at the Institute for Advanced Study, Princeton, NJ, USA

1973-2002 Research position at the Institute for Information Processing and Institute of Discrete Mathematics at the Austrian Academy of Sciences, Vienna, Austria

1974 Habilitation to obtain the title 'Dozent' which is the academic equivalent of Associate Professor at a US university

1977 Visiting Professor at Memphis State University, Tennessee, USA

1978 Visiting Researcher at MIT, Cambridge, Mass., USA

1985 Title of 'ausserordentlicher Universitätsprofessor' (ao.Prof.) which is the equivalent of Full Professor at a US university

1999-2001 Heading research project funded by the Austrian Research Fund (FWF) at the Austrian Academy of Sciences, Vienna, Austria

1999-2001 and

2004-2006 Participant in INTAS projects (joint research with Belorussian Academy of Sciences in Minsk)

1999-2012 Regular visits to University of Zimbabwe (lecturing and supervision)

2001-2002 Acting director of the Institute of Discrete Mathematics, Austrian Academy of Sciences, Vienna, Austria

2001-2007 Chairman of the Committee for Developing Countries of the European Mathematical Society

2003 and 2006 Visiting Professor at Texas A& M University, College Station, TX, USA

2003-2009 Regular visits to University of Dar es Salaam, Tanzania (lecturing and supervision)

Since 2003 Research and teaching at the Technical University of Vienna, Austria

Since 2005 Heading research projects funded by the Austrian Research Fund (FWF) at the Technical University of Vienna, Austria

Since 2005 Nominator for Kyoto Prize

2008, 2011, 2013, 2015 Organizer of the "Workshop on the Matthews-Sumner Conjecture and Related Problems" at Domažlice and Pilsen, Czech Republic, (together with Zdeněk Ryjáček, University of West Bohemia, Pilsen, Czech Republic)

4 Main Areas of Research

Mainly graph theory (but also some automata and coding theory), especially eulerian and hamiltonian graphs, independent vertex sets in graphs, algorithms and their complexity, connections between graph theory and logic.

5 Teaching Experience and Supervisions

Since 1969 Lecturer for various courses in Graph theory, Linear and abstract Algebra, Analysis, Automata theory, Game theory, Applications of graph theory in operations research

1992-1999 Joint project work (including preparatory activities) with Prof. H.A.M. Dzinotyiweyi (University of Zimbabwe) on "Mathematics Curriculum Development for Secondary Schools in Zimbabwe" (sponsored by Austrian Development Cooperation)

March 1997-February 1999 Main lecturer and project coordinator within an M.Sc. programme aiming at academic staff development, at the Department of Mathematics at University of Zimbabwe (sponsored by UNESCO and Austrian Development Cooperation)

1996, 1998, 2000, 2005 Invited lecturer at Rand Afrikaans University and University of Natal at Durban, South Africa

1999-2012 Several visits to the University Zimbabwe to teach and to supervise

2004-2009 Several visits to the University of Dar es Salaam, Tanzania, to supervise a Ph.D. student, and teaching a course

Supervised Students

PhD Thesis Susanne Regner, Hans Csarmann, Janan Taniwall, Regina Klimmek (TU Berlin), Reinhard Nedved, Harald Music (partly), Stefan Szeider, Arthur Hoffmann-Ostenhof, Egbert Mujuni (University of Dar es Salaam),

Diploma Thesis Stefan Szeider, Wolfgang Kainz, Joszef Galambfalvy de Geges, Fabian Leder

Bachelor Thesis Erich Wenger, Michaela Music

6 Important Invitations to Research Visits and Conferences

Since 1970 *invited lectures and research visits (1-2 months)*

at many universities of the North American continent, especially UCLA, University of Michigan, Princeton University, Purdue University,

and

1972, 1977, 1978, 1982 University of Waterloo

1972, 1975, 1977, 1978, 1987, 1994, 1999 Université de Montréal

1972, 1973, 1978 Universidad Nacional Autonoma de Mexico

1973, 1977, 2003, 2006 TAMU

1971, 1977, 1986, 1990, 1991, 2008 Aarhus University; Aalborg University, Denmark

1971, 1979, 1987, 1991, 2005 Mathematical Research Institute, Oberwolfach; Technical University, Ilmenau, Germany

1984 University of Wrocław, Poland

1996, 1998, 2000, 2005 Rand Afrikaans University and University of Natal at Durban, South Africa

invited speaker in international conferences such as

1980, 1981, 1983, 1984, 1985, 2001, 2005, 2007 British Combinatorial Conference

1983, 2003, 2005, 2009 SAMSA-Symposium, Africa

1985, 1990, 1995, 2008, 2010, 2014 French Combinatorial Conference

1987, 1992, 2012 China, invited 4 weak lecture tours

2000 Workshop at PIMS, Canada

2004 ECM-Congress, Stockholm, Sweden; PACOM, Tunis

2004, 2011 Workshop on Cycles and Colourings, High Tatras, Slovakia

2006 Combinatorics, Victoria, B.C., Canada

1974, 2006, 2013 Czech-Slovak International Symposium on Graph Theory, Combinatorics, Algorithms and Applications, Czech Republic and Slovakia

2015 GT 2015 Nyborg, Denmark

7 Important Peer Review Activities, and Memberships in Academic Organizations

- Referee of articles for Journal of Graph Theory, Journal of Combinatorial Theory Series B, Combinatorica, Discrete Mathematics and other journals

- Chairman of the Committee for Developing Countries of the European Mathematical Society (2001-2007)

- Nominator for Kyoto Prize (since 2005)

- Member of the Austrian Mathematical Society (ÖMG); Funding fellow of the Institute of Combinatorics and its Application (ICA), Member of the European Mathematical Society (EMS)

8 Funded Research Projects

1999-2001 Applicant and leader of the Austrian Science Fund (FWF) project no. P13417 "Proposal to investigate structural properties of formal proofs by graph theoretic methods"

2005-2008 Applicant and leader of the Austrian Science Fund (FWF) project no. P18383 "Construction, Study and Applications of Snarks"

2008-2012 Applicant and leader of the Austrian Science Fund (FWF) project no. P20543 "Cycle Double Covers, Bipartizing Matchings and Snarks"

2015-2018 Applicant and leader of the Austrian Science Fund (FWF) project no. P27615 "Cycles in Graphs and Properties of Graphs with Special Cycle Structures"