

Curriculum vitae

Personal

Name: Kim Christensen.
Sex: Male.
Date of birth: 1st December, 1962.
Place of birth: Søndre Sogn, Viborg, Denmark.
Nationality: Danish.
Affiliation: Imperial College London,
Blackett Laboratory, CMTH,
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Education

Mar. 1993: Ph.D. degree in Science.
Supervisors: **Ph.D., Dr.scient. Hans C. Fogedby and Prof. Per Bak**
Institute of Physics & Astronomy, University of Århus,
DK-8000 Århus C, Denmark.
May 1990: Master of Science.
Supervisor: **Ph.D., Dr.scient. Hans C. Fogedby,**
Institute of Physics & Astronomy, University of Århus,
DK-8000 Århus C, Denmark.

Professional experience

Oct. 2005 – present: Professor in Theoretical Physics,
Imperial College London, Blackett Laboratory, United Kingdom.
Oct. 2003 – Sept. 2005: Reader in Physics,
Imperial College London, Blackett Laboratory, United Kingdom.
Jan. 2004 – Sept. 2004: Visiting scientist (sabbatical),
PGP, Norwegian Centre of Excellence, University of Oslo, Norway.
Oct. 2002 – Sept. 2003: Senior Lecturer,
Imperial College London, Blackett Laboratory, United Kingdom.
Feb. 1999 – Sep. 2002: Lecturer,
Imperial College London, Blackett Laboratory, United Kingdom.
Jan. 1997 – Feb. 1999: EU-fellow,
Imperial College London, Dept. of Mathematics, United Kingdom.
Jan. 1996 – Dec. 1996: Visiting fellow,
Instituto de Fisica, Universidade Federal do Rio de Janeiro, Brazil.
Jun. 1995 – Aug. 1995: Visiting fellow,
Dept. of Physics, University of Barcelona, Spain.
Mar. 1993 – Dec. 1995: Post Doc,
Dept. of Physics, University of Oslo, Norway.
Aug. 1990 – Mar. 1993: Ph.D. study,
Brookhaven National Laboratory, Dept. of Physics, U.S.A.
Jan. 1988 – Dec. 1989: Teaching Assistant in Mathematics,
Dept. of Mathematics, University of Århus, Denmark.
Aug. 1982 – May 1990: Study for master degree in Physics,
Institute of Physics and Astronomy, University of Århus, Denmark.

Invited talks and organisations 2000 – present

- [20] Department of Physics, University of Cardiff (March 2005).
- [19] The 17th Kongsbergseminar on “FAST”-Dynamics, Kongsbergs, Norway (May 2004).
- [18] Symposium *Complexity and Criticality*, Niels Bohr Institute, Denmark (August 2003).
- [17] Member of the organising committee for symposium/workshop *Complexity and Criticality*.
In memory of Prof. P. Bak, Niels Bohr Institute, Denmark (August 2003).
- [16] EGS 2003 General Assemble meeting, Nice, France (April 2003).
- [15] Co-convenor for the Scientific programme at the European Geophysical Society XXVIII General Assemble meeting in Nice, France (April 2003).
- [14] AGU 2002 Fall meeting, San Francisco, U.S.A. (December 2002).
- [13] Dept. of Physics, Federal University of Belo Horizonte, Brazil (September 2002).
- [12] Dept. of Physics, University of São Paulo, Brazil (August 2002).
- [11] Dept. of Aeronautics, Imperial College London, U.K. (June 2002).
- [10] Co-convenor for the Scientific programme at the European Geophysical Society XXVII General Assemble meeting in Nice, France (April 2002).
- [9] Dept. of Physics, University of Birmingham, U.K. (February 2002).
- [8] Scientific organiser of the annual CMTH U.K. meeting at Warwick University (December 2001).
- [7] Dept. of Physics, University of Reading, U.K. (October 2001).
- [6] SIMBIOS, University of Abertay Dundee, U.K. (September 2001).
- [5] Scientific organiser of the annual CMTH U.K. meeting at Warwick University (June 2001).
- [4] XXVI European Geophysical Society General Assembly, Nice, France (March 2001).
- [3] Theory of CMP summer school, Physics by the Lake, U.K. (September 2000).
- [2] Mini course on *Complexity* at Dept. of Physics, University of Bahia, Brazil (April 2000).
- [1] Workshop on *Universal Fluctuations in Correlated Systems*, Lyon, France (March 2000).

Details of teaching activities 2000 – present

October 2004 – present

Lecture Course: Statistical Mechanics (PT.3.4).

Demonstrating/Assessing 1st year computing course (Head of Lab. Prof. Joanna D. Haigh).

Supervision: 4 MSci students.

Tutor for Occasional students.

Personal tutor for 7 students.

Member of the *Comprehensive Panel* for setting *Comprehensive Examination Papers*.

Teaching load is 438 hours. The average departmental teaching load is 447 hours.

Post-graduate supervision: 3 Ph.D students.

October 2003 – September 2004

Lecture Course: Statistical Mechanics (PT.3.4).

Personal tutor for 8 students.

Sabbatical January – September 2004 at Norwegian Centre of Excellence *Physics of Geological Processes*, Department of Physics, University of Oslo, Norway.

Teaching load was 468 hours. The average departmental teaching load was 460 hours.

Post-graduate supervision: 4 Ph.D students.

October 2002 – September 2003

Lecture Course: Condensed Matter Theory (PT.5)

Demonstrator and Associated lecturer on Computational Physics run by Prof. Angus MacKinnon.

Supervision: 6 MSci students.

Personal tutor for 16 students.

Personal tutor for occasional students.

Member of the *Comprehensive Panel* for setting *Comprehensive Examination Papers*.

Teaching load was 468 hours. The average departmental teaching load was 460 hours.

Post-graduate supervision: 3 Ph.D students.

October 2001 – September 2002

Lecture Course: Condensed Matter Theory (PT.5).

Tutorials: 4 groups of 1st year students.

Associated lecturer on Computational Physics run by Prof. Peter Cargill.

Supervision: 3 MSci students.

Personal tutor for 15 students.

Member of the *Comprehensive Panel* for setting *Comprehensive Examination Papers*.

Teaching load was 513 hours. The average departmental teaching load was 510 hours.

Post-graduate supervision: 3 Ph.D students.

October 2000 – September 2001

Lecture Course: Condensed Matter Theory (PT.5).

Demonstrating/Assessing 2nd year computing course (Head of Lab. Prof. Peter Cargill).

Supervision: 2 MSci students + 6 project students + 1 project student co-supervised with Prof.

Dimitri Vvedensky, Dept. of Physics.

Personal tutor for 15 students.

Associated Lecturer: *Thermal & Statistical Physics* (P.2.2).

Member of the *Comprehensive Panel* for setting *Comprehensive Examination Papers*.

Teaching load was 503 hours. The average departmental teaching load was 490 hours.

Post-graduate supervision: 1 Ph.D student.

Details of student supervision 2000 – present

- **Miss Vera Pancaldi** - 1st year Ph.D student.
Start date: October 2004.
Research interests: Theory of up-scaling applied to geological problems.
- **Mr. Matthew Stapleton** - 2nd year Ph.D student.
Start date: October 2003.
Research interests: Theory of self-organised criticality.
Number of publications: 1.
- **Miss Nadia Farid** - 3rd year Ph.D. student.
Start date: November 2002.
Research interests: Evolution of Networks.
- **Dr. Nicholas R. Moloney** (Beit Fellow).
Start date: October 2001.
End date: October 2004.
Thesis: *Numerical investigations into order parameter fluctuations.*
Number of publications: 4 + 1 paper in preparation + 1 book.
- **Dr. Ole B. Peters.**
Start date: October 2001.
End date: October 2004.
Thesis: *Approaches to Criticality: Rainfall and other relaxation processes.*
Number of publications: 4 + 1 paper in preparation.
- **Dr. Simone A. di-Collobiano.**
Start date: October 1998.
End date: May 2002.
Thesis: *Tangled Nature: A model of ecological evolution.*
Number of publications: 3.

List of courses/workshops attended 2000 – present

- Workshop D: *Course Design* (February 2001).
- Workshop K: *Supervising Postgraduate Students* (September 2000).
- Workshop B: *Student Learning, Student Needs and Course Design* (July 2000).
- Workshop A: *Speaking Technically* (June 2000).

Details of other departmental duties

October 1998 – present

- Member of the *Physics Graduate Studies Committee.*
- Responsible for the *Condensed Matter Physics Colloquia and Seminars* in collaboration with Prof. Henrik J. Jensen, Dept. of Mathematics.
- Responsible for *Post Graduate Recruitment within the Condensed Matter Theory Group* in collaboration with Dr. Derek K.K. Lee, Dept. of Physics.

List of grants and fellowships

- 2003: Dr. Christel Camp awarded 6 month DAAD Fellowship for post doc position at Imperial.
- 2002: Dr. Christel Camp awarded 12 month DAAD Fellowship for post doc position at Imperial.
- 2002: Ph.D. student Mr. Nicholas Moloney awarded 2 year Beit Scientific Research Fellowship.
- 2001: EPSRC, U.K. *Project studentship*.
- 2001: EPSRC, U.K. *Support for mini-workshop* Disentangling Nature.
- 1998: EPSRC, U.K. *CMTH group computing grant*.
- 1997 – 1999: EU fellowship, EU commission.
- 1996: CNPq, Conselho National de Desenvolvimento Cientifico e Technologia, Brazil.
- 1995: The Spanish National Research Council, Spain.
- 1993 – 1995: The Danish Natural Science Research Council, Denmark.
- 1990 – 1993: Carlsberfondet.
The Danish Research Academy.
Brookhaven National Laboratory.
Augustinus Fonden.
Løvens Kemiske Fabriks Forskingsfond.
Emil Herborgs Legat.

Grant application submitted

- EPSRC, U.K., duration 36 month, date of start October 2005 – decision expected January 2005.
Dr. K. Christensen (PI)
Prof. C. Vassilicos and Dr. U. Galvanetto, Dept. of Aeronautics, Imperial.