**List B.**

**Combinatorial staff, research students, lecture courses and seminars at departments in the UK**

An asterisk denotes a contact name from whom further information can be obtained. Under some entries the combinatorial journals currently being taken are listed; a key to the titles is as follows:

<table>
<thead>
<tr>
<th>A</th>
<th>Aequationes Mathematicae</th>
<th>N</th>
<th>Discrete Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Algebra Universalis</td>
<td>O</td>
<td>Discussiones Mathematicae: GraphTheory</td>
</tr>
<tr>
<td>C</td>
<td>Ars Combinatoria</td>
<td>P</td>
<td>European Journal of Combinatorics</td>
</tr>
<tr>
<td>D</td>
<td>Australasian Journal of Combinatorics</td>
<td>Q</td>
<td>Finite Fields and Applications</td>
</tr>
<tr>
<td>E</td>
<td>Biometrics</td>
<td>R</td>
<td>Geometriae Dedicata</td>
</tr>
<tr>
<td>F</td>
<td>Biometrika</td>
<td>S</td>
<td>Graphs and Combinatorics</td>
</tr>
<tr>
<td>G</td>
<td>Bulletin of the Institute of Combinatorics and itsApplications</td>
<td>T</td>
<td>IEEE Transactions on Information Theory</td>
</tr>
<tr>
<td>H</td>
<td>Combinatorica</td>
<td>U</td>
<td>Journal of Algebraic Combinatorics</td>
</tr>
<tr>
<td>L</td>
<td>Discrete and Computational Geometry</td>
<td>X</td>
<td>Journal of Combinatorial Theory Series A</td>
</tr>
<tr>
<td>M</td>
<td>Discrete Applied Mathematics</td>
<td>Y</td>
<td>Journal of Combinatorial Theory Series B</td>
</tr>
<tr>
<td>a</td>
<td>Journal of Geometry</td>
<td>Z</td>
<td>Journal of Cryptology</td>
</tr>
<tr>
<td>b</td>
<td>Journal of Graph Theory</td>
<td>f</td>
<td>Order</td>
</tr>
<tr>
<td>c</td>
<td>Journal of Statistical Planning and Inference</td>
<td>g</td>
<td>Random Structures and Algorithms</td>
</tr>
<tr>
<td>d</td>
<td>Linear Algebra and its Applications</td>
<td>h</td>
<td>SIAM Journal on Discrete Mathematics</td>
</tr>
<tr>
<td>e</td>
<td>Networks</td>
<td>i</td>
<td>Utilitas Mathematica</td>
</tr>
</tbody>
</table>
UNIVERSITY OF ABERDEEN
Business School University of Aberdeen, Edward Wright Building, Dunbar Street, Old Aberdeen, AB24 3QY. Tel: 01224 272167
http://www.abdn.ac.uk/business
Dr J.D. Lamb* (graphs, matroids, combinatorial optimisation)

Lecture Courses: There are a number of general discrete mathematics courses.

Current Periodicals; A, B, E, F, H, I, J, L, M, N, P, Q, R, T, V, W, Z, d, g (some electronic access only).

ABERYSTWYTH UNIVERSITY
Institute of Mathematics, Physics & Computer Science, Aberystwyth University, Aberystwyth, SY23 3BZ. Tel: 01970 622802 Fax: 01970 622826 email: maths@aber.ac.uk
http://www.aber.ac.uk/maps/en/
Dr. Jacqueline Daykin (combinatorics on words)
Prof J. D. Key (Honorary Professor: combinatorics, codes)
Prof V.C. Mavron* (Emeritus: designs, codes)
Dr T. P. McDonough (retired, Honorary Lecturer: designs, permutation groups, codes)
Prof A.O. Morris (Emeritus: representation theory and algebraic combinatorics)

Lecture courses None currently.

Current periodicals: P, U, h

UNIVERSITY OF BATH
Department of Mathematical Sciences University of Bath, Bath, BA2 7AY Tel: 01225 386989 Fax: 01225 386492
http://www.bath.ac.uk/math-sci
Dr Antal Jarai (probability including spanning forests/trees and sandpiles)
Dr. Ceclie Mailler (probability enumerative combinatorics))
Dr. Marcel Ortgiese (probability, including random graphs)
Prof Mathew Penrose (probability theory, geometric random graphs)
Dr. Matt Roberts (probability, including probabilistic)

Forthcoming visitors to Bath in probability (often interacting with combinatorics) are listed at http://www.bath.ac.uk/research/centres/probability-laboratory/seminars/ (scroll down the page).

Seminar Probability Seminar (Monday, 12.15):
http://www.bath.ac.uk/research/centres/probability-laboratory/seminars/
Current Periodicals: A, B, D, E, F, H, J, L, M, N, P, Q, R, S, T, U, V, X, Y, Z, a, b, c, d, e, f, g, h. Most of these are electronic access only (sometimes only after a fixed date) but E and F are paper access.

QUEEN’S UNIVERSITY BELFAST
School of Mathematics and Physics. University Road. Belfast, BT7 1NN, United Kingdom. Tel. +44 (0)28 9097 6005
http://www.qub.ac.uk/schools/SchoolofMathematicsandPhysics/

Dr. Andrea Munaro (graphs, combinatorics)

BIRKBECK COLLEGE
School of Economics, Mathematics and Statistics Birkbeck College, Malet Street, London WC1E 7HX. Tel: 0207 631 6428 Fax: 0207 631 6416
http://www.ems.bbk.ac.uk/
Dr Andrew Bowler* (symmetric designs, combinatorial matrices, permutation groups)
Dr Ben Fairbairn (combinatorial algebra).
Prof. Sarah Hart (permutation groups, sum-free sets)
Dr. Steven Noble (graph polynomials and matroids)
Dr Maura B. Paterson (frameproof codes, key distribution schemes, multivariate equation solving techniques).
Dr. Alexey Pokrovskiy (extremal and probabilistic combinatorics)

School of Computer Science and Information Systems Birkbeck College, Malet Street, London WC1E 7HX. Tel: 0207 631 6700 Fax: 0207 631 6727
http://www.dcs.bbk.ac.uk/
Prof Trevor I. Fenner (combinatorial algorithms, probabilistic algorithms, random graphs)
Prof George Loizou (combinatorial algorithms)
Dr Oded Lachish (combinatorial algorithms).

UNIVERSITY OF BIRMINGHAM
School of Mathematics University of Birmingham, Edgbaston, Birmingham B15 2TT. Tel: 0121 414 6587 Fax: 0121 414 3389
http://www.mat.bham.ac.uk
http://web.mat.bham.ac.uk/combinatorics/main.html (for combinatorics group).
Dr. Johannes Carmesin (structural graph theory, matroid theory)
Dr Nikolaos Fountoulakis (Random Graphs, percolation, Randomized Algorithms)
Dr. Matthew Jenssen (extremal and probabilistic combinatorics)
Prof Daniela Kühn (Extremal and Probabilistic Combinatorics)
Dr. Allan Lo (Extremal Combinatorics)
Dr. Eoin Long (Extremal Combinatorics)
Dr. Richard Montgomery (Extremal and Probabilistic Combinatorics).
Dr Richard Mycroft (Extremal Combinatorics)
Prof Deryk Osthus* (Extremal and Probabilistic Combinatorics)
Dr Andrew Treglown (Extremal Combinatorics).
Research Fellows

Dr. Antonio Girão (Combinatorics)
Dr. Dong-Yeap Kang (Combinatorics)
Dr. Tom Kelly (Combinatorics)
Dr. Abhishek Methuku (combinatorics)
Dr. Maryam Sharifzadeh (extremal combinatorics)

Research Students
Alistair Benford
Jordan Chellig
Padraig Condon (Prof. Osthus)
Alberto Espuny Diaz (Prof. Kühn)
Stephen Gould (Prof. Osthus)
Bertille Granet (Prof. Kühn)
Joseph Hyde (Dr. Treglown)
Tejas Iyer (Dr. Fountoulakis)
Amartha Kathapurkar (Dr. Mycroft)
Tsvetomir Mihaylov
Vincent Pfenninger

Lecture courses
Combinatorial Optimisation (22 lectures, 3rd year)
Discrete Mathematics (22 lectures, 1st year)
Combinatorics (22 lectures, 3rd and 4th year)
Communication Theory (22 lectures, 3rd and 4th year)
Advanced Topics in Combinatorics (22, 4th year)
Graph Theory (44, 3rd and 4th year)

Seminar Combinatorics Research Seminar (usually Thursdays 2 p.m)
http://web.mat.bham.ac.uk/combinatorics/

UNIVERSITY OF BRISTOL

Department of Mathematics University of Bristol, University Walk, Bristol, BS8 1TW, Tel: 0117 928 7978, Fax: 0117 928 7999.
http://www.maths.bris.ac.uk
Prof Carl Dettmann (random geometric graphs, wireless networks, dynamical systems, statistical physics)
Dr David Ellis (combinatorics, and its interaction with other areas of mathematics - especially group theory, analysis, geometry and probability theory)
Dr Oliver Johnson (group testing, entropy, log-concavity)
Dr Ashley Montanaro (quantum computation, including combinatorial aspects)
Dr Misha Rudnev (harmonic analysis, geometric combinatorics, hard Erdős problems)

Research Fellows
Dr Edward Crane (Geometric function theory, circle packings, holomorphic dynamics, discrete probability, two-dimensional statistical mechanics)
Dr Neil Gillespie (error-correcting codes, permutation groups, codes in graphs)
Dr Justin McInroy (groups, algebras, finite geometry, codes)

**Department of Computer Science** Merchant Venturers Building, Woodland Road, Bristol, BS8 1UB, Tel. 0117 954 5264, Fax 0117 954 5208
http://www.cs.bris.ac.uk/
Dr Raphael Clifford (algorithms)
Dr. Christian Konrad (algorithms, combinatorics)
Dr. John Lapinskas (combinatorics, complexity).

Research Students
Javier Pliego Garcia (Dr. Rudnev and Dr. Nina Snaith)
Peter Bradshaw (Dr. Rudnev and Dr. Farhad Babae)
James Wheeler (Dr. Rudnev and Prof. Francesco Mezzadri)

Lecture Courses
Combinatorics (36 lectures, 2nd year)
Optimisation 2 (36 lectures, 2nd year)
Information Theory (18 lectures, 3rd year)
Experimental Design (18 lectures, 3rd year)
Quantum Information Theory (16 lectures, 4th year)
Complex Networks (36 lectures, 3rd and 4th year)
Topics in Discrete Mathematics (15 lectures, 3rd and 4th year)

Seminar  Combinatorics Seminar on Thursdays at 4.15 p.m: see
http://www.bristol.ac.uk/maths/events/combinatorics/

Current Periodicals:
A, B, E, F, H, I, J, L, M, N, P, Q, R, S, T, U, V, X, Y, Z, a, b, c, d, e, f, g, h (online). E, h (paper); plus some old paper copies of A, B, F, H, J, L, M, N, R, T, X, Y, b, d, i.

BT MOBILITY RESEARCH CENTRE, ADASTRAL PARK, MARTLESHAM.
http://keithbriggs.info/
Dr Keith Briggs (graph theory and stochastic processes for network applications).

BRUNEL UNIVERSITY
**Department of Mathematical Sciences** Brunel University, Kingston Lane, Uxbridge, Middlesex UB8 3PH. Tel: 01895 265745 Fax: 01895 265732
http://www.brunel.ac.uk/about/acad/siscm/maths
Dr Rhiannon Hall* (matroid theory, graph theory)
Dr Ilia Krasikov (graph theory, combinatorics, coding theory, number theory, orthogonal polynomials)

Lecture courses
Encryption and Data Compression (48 lectures, 3rd year, Dr Krasikov)
Elements of Combinatorics (24 lectures, 2nd year, Dr Krasikov)
Fundamentals (24 lectures, 1st year, Dr Winter)
Probability (36 lectures, 1st year, Dr Kaloghiros)

Institutional Research Repository (containing preprints etc.): http://bura.brunel.ac.uk/

Current Periodicals: A, B, E, F, H, I, J, L, M, N, O, P, Q, R, S, T, U, V, X, Y, a, b, c, d, e, f, g

UNIVERSITY OF CAMBRIDGE
Centre for Mathematical Sciences Wilberforce Rd, Cambridge CB3 0WB. Tel: 01223 337999 Fax: 01223 337920
http://www.dpmms.cam.ac.uk/
Prof. Emmanuel Breuillard (additive combinatorics)
Prof W. Tim Gowers (analysis, combinatorics)
Prof Geoffrey R. Grimmett (probability theory, combinatorial theory)
Prof Frank Kelly (random processes, networks, optimization)
Prof Imre Leader* (extremal combinatorics, Ramsey theory)
Dr. Perla Sousi (probability, including combinatorial aspects)
Prof Simon Tavare (probability, combinatorics, biological applications)
Prof Andrew Thomason (combinatorics, graph theory, algorithms)
Prof. Peter Varjú (dynamical systems, probability, combinatorics)
Prof Richard Weber (mathematical operational research, stochastic networks)
Dr. Julia Wolf (additive combinatorics)

Fellows and Research Fellows
Dr. Thomas Bloom (additive combinatorics)
Prof Béla. Bollobás (combinatorics, graph theory)
Dr. Gabriel Conant (model theory, combinatorics)
Dr Thomas Forster (logic, set theory, combinatorics)
Dr. Vytautas Gruslys (combinatorics)
Dr. Tom Hutchcroft (probability, including combinatorial aspects)
Dr. Natasha Morrison (combinatorics)
Dr Paul Russell (Ramsey theory)
Dt. Julian Sahasrabudhe (combinatorics)
Dr. Matthew Tointon (additive combinatorics)
Dr. Aled Walker (combinatorics, analytic number theory)

Research students
Andrew Carlotti (Prof. Bollobás)
Stefan David (Prof. Bollobás)
Peter van Hintum (Prof. Bollobás)
Freddie Illingworth (Prof. Thomason).
Piet Lammers (Prof. Bollobás)
Ares Meroueh (Prof Thomason)
Zarko Randelovic (Prof. Leader)
Eero Raty (Prof. Leader)
Michael Savery
Lecture courses
Numbers and Sets (24 lectures, 1st year, Prof Thomason)
Graph Theory (24 lectures, 3rd year, Dr. Russell)
Coding and Cryptography (24 lectures, 3rd year, Dr Rachel Camina)
Combinatorics (16 lectures, Part III, Prof. Leader)
Introduction to Approximate Groups (Dr. Tointon)
Introduction to Discrete Analysis (Prof. Gowers)
Mixing time of Markov chains (Dr. Hermon)
Percolation and Random Walks on Graphs (16 lectures, Part III, Dr. Sousi)
Topics in Ergodic Theory (Prof. Varju).

Seminars
Combinatorics (Thursdays at 2.30 p.m.)

UNIVERSITY OF CARDIFF
School of Computer Science and Informatics
Cardiff University, Queen's Buildings, Newport Road, PO Box 916, Cardiff CF24 3XF. Tel: 029 2087 4812 Fax: 029 2087 4598
http://www.cs.cardiff.ac.uk/
Prof. Stuart M. Allen (mobile communications, frequency assignment, combinatorial optimisation, latin squares)
Dr. Padraig Corcoran (combinatorics, algorithms)
Prof Stephen Hurley (mobile communications, frequency assignment, combinatorial optimisation)
Prof. Roger M. Whitaker (mobile communications, frequency assignment, combinatorial optimisation, latin squares)

School of Mathematics. Maths and Education Building, Senghennydd Road, Cardiff, CF24 4AG
Dr. Iskander Aliev (discrete mathematics)
Prof. Roger Behrend (Combinatorics, including alternating sign matrices, graphs, lattice paths, plane partitions, polytopes)
Dr. Andrei Gagarin* (combinatorics, algorithms)
Dr Matthew Lettington (combinatorial number theory)
Dr. Rhyd Lewis (graph colourings, combinatorial optimisation)

Lecture courses
Introduction to the Theory of Computation (2nd year)
Combinatorics (3rd year, Prof Behrend)
Coding Theory (3rd year, Dr Aliev)
Algorithms and Heuristics (3rd year, Dr Lewis)
Combinatorial Optimisation (3rd year)
Combinatorial and Analytic Number Theory (4th year, Dr Lettington)
Graph Theory and Algorithms (4th year, Dr Gagarin)
Seminars
Discrete Mathematics and Data Science
http://www.cardiff.ac.uk/research/explore/research-units/discrete-mathematics-and-data-science-research-team

CITY UNIVERSITY LONDON
Faculty of Actuarial Science and Statistics Cass Business School, 106 Bunhill Row, London EC1Y 8TZ Tel: 020 7040 8959 Fax: 020 7040 8572
http://www.cass.city.ac.uk/facact
Prof C. Glass* (operation research, combinatorial optimisation; computational complexity; graph theory)

Department of Mathematics Tait Building, Northampton Square, London EC1V 0HB. Tel 020 7040 6051. Fax 020 7040 8566
http://www.city.ac.uk/department-mathematics
Prof. M. Broom (mathematical biology, links with graph theory)
Dr A. Cox (representation theory)
Prof J. Chuang (representation theory of finite groups)
Dr M. De Visscher (representation theory)
Prof R. Kessar (representation theory of finite groups)
Prof M. Linckelmann (representation theory of finite groups)

UNIVERSITY OF DERBY
Dept. Electronics, Computing and Mathematics College of Engineering and Technology, University of Derby, Markeaton Street Campus, Markeaton Street, Derby DE22 3AW. Tel: 01332 593216.
https://www.derby.ac.uk/colleges/engineering-technology/
Dr Ovidiu D. Bagdasar (Discrete Mathematics, Optimization, Mathematical Modelling, Geometry, Complex Analysis)
Prof Peter J. Larcombe* (Hypergeometric Function Theory, Generating Functions, Binomial Coefficient Sums, Linear Recurrence Sequences)
Dr Nicholas Korpelainen (Structural and Algorithmic Graph Theory, Permutation Patterns)

Research students: None

Lecture courses: Graph Theory and its Applications (3rd year)

Current periodicals: None

UNIVERSITY OF DUNDEE
Computing Computing, University of Dundee, Dundee DD1 4HN. Tel: 01382 388035
http://www.computing.dundee.ac.uk
Dr K. J. Edwards* (Graph colourings, graph decompositions, complexity)
Lecture Courses:
Graph Theory (level 3)
Theory of Computation (level 3)

Current Periodicals: T, V, b, d

DURHAM UNIVERSITY

Department of Computer Science Science Laboratories, South Road, Durham DH1 3LE Tel: 0191 33 41700 Fax: 0191 33 41701
http://community.dur.ac.uk/algorithms.complexity/
Dr. Eleni Akrida (algorithms and complexity)
Dr Magnus Bordewich (computational complexity; randomised algorithms; phylogenetics)
Dr. Nick Brettell (graph theory, matroid theory, algorithms)
Dr Stefan Dantchev (proof complexity)
Dr Tom Friedetzky (randomised algorithms; probabilistic analysis; sub-linear time algorithms; communication networks)
Dr Max Gadouleau (coding, network coding, information theory and their links to combinatorics and matroid theory)
Dr Ioannis Ivrissimtzis (geometric modelling)
Prof Matthew Johnson* (graph theory, combinatorial optimization, combinatorial designs)
Prof Andrei Krokhin (algebra; logic; discrete mathematics; constraint satisfaction; computational complexity; temporal reasoning)
Dr. Barnaby Martin (computation complexity)
Dr George Mertzios (Algorithms, Complexity, Networks, Combinatorial Optimization, Algorithmic Game Theory)
Prof. Daniel Paulusma (graph theory; algorithms; combinatorial optimization; cooperative game theory)
Prof Iain A. Stewart (computational complexity; finite model theory; descriptive complexity; graph theory; interconnection networks; group theory)

Department of Mathematical Sciences Department of Mathematical Sciences, Durham University, Science Laboratories, South Rd, Durham DH1 3LE. Tel: 0191-334-3050 Fax: 0191-334-3051

Dr Nicholas Georgiou (Probabilistic combinatorics and partial orders; modular decomposition and its connection to the Reconstruction Conjecture)
Dr Norbert Peyerimhoff (global analysis, graph theory, Riemannian geometry)

Research Staff (in Computer Science)

Dr. Konrad Dąbrowski (graph algorithms, parameterized complexity)
Dr. Jakub Opršal (combinatorics)

Research Students
Calina Durbac (Prof. Johnson)
Isobel Friedlander (Dr. Gadouleau)
Abdul Ghani (Dr. Dantchev and Dr. Martin)
Nina Klobas (Dr. Mertzios)
Giacomo Paesani (Prof. Paulusma)
Siani Smith (Dr. Martin and Prof. Paulusma)
Karl Southern (Dr. Gadouleau)
William Whistler (Prof Krokhin).

Lecture Courses:
Algorithms and Data Structures (1st year, 40 lectures, Dr Friedetzky and Dr Johnson)
Logic and Discrete Mathematics (1st year, 40 lectures, Prof Krokhin and Dr Paulusma)
Algorithms and Complexity (2nd year, 20 lectures, Dr Gadouleau and Dr Mertzios)
Advanced Algorithms (3rd year, 10 lectures, Dr Johnson)
Advanced Computational Complexity (3rd year, 10 lectures, Prof Krokhin)
Algorithmic Game Theory (3rd year, 10 lectures, Dr Dantchev)
Information Theory (3rd year, 10 lectures, Dr Gadouleau)

Seminars
The Algorithms and Complexity Group have a weekly seminar, current webpage.
http://community.dur.ac.uk/algorithms.complexity/seminars.html

(electronic only except H, I. H which are hardcopies).

UNIVERSITY OF EAST ANGLIA, NORWICH
School of Mathematics University of East Anglia, Norwich NR4 7TJ. Tel: 01603 456161 Fax: 01603 259515
http://www.uea.ac.uk/mth
Prof A.R. Camina (block designs, finite groups)
Prof M. Džamonja (logic, set theory, infinite combinatorics)
Dr Robert D. Gray* (algebra and combinatorics)
Dr S. Lyle (representation theory).
Dr I. J. Siemons (permutation groups, topological and homological methods)
Prof A.E. Zalesskii (group theory, ring theory)

School of Computing Sciences University of East Anglia, Norwich, NR4 7TJ, United Kingdom. Tel. +44 (0) 1603 592607. Fax. +44 (0) 1603 593345
http://www.uea.ac.uk/cmp/
Dr Katharina Huber (finite metric spaces, phylogenetics, discrete algorithms, applications of combinatorial approaches to computational biology)
Prof Vincent Moulton (finite metric spaces, phylogenetics, discrete algorithms, graph theory, applications of combinatorial approaches to computational biology)
Dr. Taoyang Wu (phylogenetic combinatorics)

Research students
Miss S. Bastkowski (phylogenetics, Prof Moulton)
Mr. S. Greatrix (phylogenetics, Prof Moulton)
Mr. R. Suchecki (phylogenetics, Dr Huber)
Miss Atiadne Thompson

Lecture courses (check availability):
Discrete Mathematics (2nd year)
Set theory (3rd year)
Infinite permutation groups (4th year, p/g)
Representation Theory (3rd year)
Graph theory (3rd year)
Group theory (3rd year)
Computability (3rd year)
Model theory (3rd year)

UNIVERSITY OF EDINBURGH
School of Informatics 2 Buccleuch Place, Edinburgh EH8 9LW Tel. 0131 650 2691 Fax: 0131 650 6626
http://www.inf.ed.ac.uk
Dr Mary Cryan* (algorithms and complexity)
Dr. Heng Guo (algorithms and complexity)
Dr He Sun (spectral graph theory, randomised algorithms)

Research students

Lecture Courses
Algorithms and Data Structures (3rd year)
Computability and Intractability (3rd year, MSc)
Computational Complexity (4th year)

Current Periodicals: E, H, M, T, X, Y

Telephone: +44 131 650 5060
Prof. Des Higham (numerical analysis, analysis of networks)

UNIVERSITY OF ESSEX
Department of Mathematical Sciences University of Essex, Wivenhoe Park, Colchester CO4 3SQ. Tel: 01206 873040 Fax: 01206 873043
http://www.essex.ac.uk/maths
Dr David Branson (retired: applied probability, combinatorics of Stirling numbers)
Dr. Jessica Claridge (cryptography, coding)
Prof Peter M. Higgins (combinatorics of algebraic semigroup theory, cryptography)
Dr David Penman* (random and pseudo-random graphs, aspects of poset theory and additive combinatorics)
Prof Chris Saker (combinatorics on words, semigroup theory, cryptography)
Dr Abdellah Salhi (combinatorial optimisation)
Dr Alexei Vernitski (algebra, combinatorics, computer security)
Prof Gerald Williams (computational group theory)

Research students
Baha Tamimi (critical groups of graphs, Dr Penman and Dr Williams, part-time)

Lecture Courses
Graph Theory (3rd year, Dr Penman) (30 lectures)
Codes and Cryptography (Dr Williams, 3rd year) (30 lectures)
Combinatorial optimisation (Dr Xinan Yang, 3rd year) (30 lectures)

Current periodicals: H, P, h.

UNIVERSITY OF EXETER
School of Engineering, Computing and Mathematics Harrison Building, University of Exeter, North Park Road, Exeter EX4 4QF.
Tel: 01392 263650 Fax: 01392 264067
http://www.secam.ex.ac.uk/mat

Dr R. J. Chapman* (finite fields, coding theory, enumerative combinatorics)

Lecture courses
Discrete Mathematics and Probability (1st year)
Coding theory (3rd year)
Combinatorics (3rd year)
Graphs, Networks and Algorithms (3rd year)

Current periodicals: C, D, W

(For “Glamorgan”, see now “University of South Wales”).

UNIVERSITY OF GLASGOW
School of Mathematics and Statistics School of Mathematics and Statistics, University of Glasgow, University Place, Glasgow G12 8QQ; Tel: 0141 330 2940.
www.gla.ac.uk/schools/mathematicsstatistics
Dr I. Anderson (Honorary research fellow: designs, whist tournaments)

School of Computing Science Sir Alwyn Williams Building, Lilybank Gardens, Glasgow G12 8QQ Tel: 0141 330 4256
http://www.gla.ac.uk/schools/computing/
Dr. J. Enright (graph theory, optimisation, algorithms, network epidemiology)
Dr R.W. Irving (combinatorial and graph algorithms) (Honorary Research Fellow)
Prof D.F. Manlove (combinatorial and graph algorithms)
Dr K. Meeks* (graph theory, algorithms, parameterised complexity, networks.
Prof A. Miller (combinatorial and graph algorithms)
Dr P. Prosser (combinatorial and graph algorithms)
Research Associates
Dr. Blair Archibald (algorithms)
Dr. Andrew Elliott (network statistics, algorithms)
Dr. Ciaran McCreesh (combinatorial and graph algorithms)
Dr. Sofiat Olaosebikan (graph theory, combinatorial optimization and algorithm engineering)
Dr. William Pettersson (graph theory, algorithms, combinatorial optimisation)
Dr. John Sylvester (discrete probability, graph theory and algorithms)

Research students
Benjamin Bumpus (combinatorial and graph algorithms, parameterised complexity, Dr. Meeks)
Michael McKay (algorithms for coalition formation problems, Prof Manlove)
Craig Reilly (Parallel graph search with isomorphism elimination, Dr Miller)
Jessica Ryan (combinatorial and graph algorithms, graph theory, Dr. Meeks)
James Trimble (combinatorial and graph algorithms, Dr Prosser and Prof. Manlove)

Lecture courses
Algorithmic Foundations 2 (Computing Science, 2nd year, 22 lectures)
Algorithms and Data Structures 2 (Computing Science, 2nd year, 22 lectures)
Algorithmics I (H) (Computing Science, 3rd year, 20 lectures)
Algorithmics II (H) (Computing Science, 4th year, 20 lectures)
Constraint Programming M (Computing Science, 4th year, 20 lectures)
Graphs and Networks (Maths, 22 lectures, 2nd year)
Topics in Discrete Mathematics (Maths, 21 lectures, 2nd year)

Seminars: Formal Analysis, Theory and Algorithms (Tuesday, 1 pm, during semester time). (Dr. Blair Archibald)
https://www.gla.ac.uk/schools/computing/research/researchsections/fata-section/

Current periodicals: C, O, i (paper only)
M, N, Q, R, V, X, Y, b, c, h (paper and electronic)
A, B, F, H, I, L, P, S, T, U, Z, a, d, e, f, g (electronic only).

GOLDSMITHS COLLEGE
Department of Computing Goldsmiths College, University of London, New Cross, London SE14 6NW. Tel: 0207 919 7850 Fax: 0207 919 7853
http://www.goldsmiths.ac.uk/computing/
Dr. G. Badkobeh (combinatorics on words).
Dr I. Pu* (combinatorial algorithms, randomized, parallel, probabilistic and average case algorithmics)

Lecture courses
Discrete Mathematics (1st year)
Data Structures and algorithms (2nd year, Dr Pu)
Graph Theory (3rd year)

Current Periodicals: X, Y, b

UNIVERSITY OF GREENWICH
School of Computing and Mathematical Sciences University of Greenwich, London, SE18 6PF Tel: 0208 316 8000 Fax: 0208 855 4033
http://www.gre.ac.uk/schools/cms
Prof Vitaly A. Strusevich (combinatorial optimization, scheduling theory)
Current Periodicals: T

HERIOT-WATT UNIVERSITY
Department of Mathematics Heriot-Watt University, Riccarton, Edinburgh EH14 4AS. Tel: 0131 451 3221 Fax: 0131 451 3249
http://www.ma.hw.ac.uk/maths.html
Dr. Laura Ciobanu (group theory, combinatorics, formal languages)
Dr Mark V. Lawson (semigroup theory, combinatorics on words)

Department of Actuarial Mathematics and Statistics Heriot-Watt University, Riccarton, Edinburgh EH14 4AS. Tel: 0131 451 3202 Fax: 0131 451 3249
http://www.ma.hw.ac.uk/ams
Dr Jennie Hansen (probabilistic combinatorics)

Department of Computer Science
Dr. Saša Radomirović (Combinatorics on words, cryptographic protocols, information security)

Lecture course Discrete mathematics (45 lectures, 3rd year honours degree)

Current periodicals: E, F, I, c, g, h

UNIVERSITY OF HERTFORDSHIRE
School of Physics, Astronomy and Mathematics University of Hertfordshire, College Lane, Hatfield, Hertfordshire, AL10 9AB
Tel. +44 (0)1707 284394
http://www.herts.ac.uk/apply/schools-of-study/physics-astronomy-and-mathematics
Dr Catarina Carvalho (algebra, combinatorics, theoretical computer science)
Dr Yann Pèresse (algebra, combinatorics)

ROYAL GRAMMAR SCHOOL, HIGH WYCOMBE.
Dr Richard I Shreeve (retired) (combinatorics in general, specifically enumeration of 3-topes and \(n\)-topes).

*Lectures*: Occasional lectures to Oxbridge applicants.

**UNIVERSITY OF HULL**

*Computer Science* School of Engineering and Computer Science, Faculty of Science and Engineering, University of Hull, Cottingham Road, Hull, HU6 7RX
http://www.dcs.hull.ac.uk
*Dr N.A. Gordon (465038) (finite geometry, computer algebra)*

*Research report series* http://www.hull.ac.uk/php/masrs/

*Current periodicals*: T. Electronic access to H, J, P, Q, R, S, U, V, X, Y, a, b, d

**IMPERIAL COLLEGE LONDON**

*Department of Mathematics* Imperial College London, London SW7 2AZ. Tel: 0207 594 8517 Fax: 0207 594 8483
http://www.ma.ic.ac.uk
Dr John Britnell (group theory, algebraic combinatorics)
Prof D. M. Evans (permutation groups, automorphism groups of infinite structures)
Prof A. A. Ivanov (distance-transitive graphs)
Prof M. W. Liebeck (group theory, algebraic combinatorics)
Dr O. Pretzel (retired: combinatorics)

*Department of Electrical Engineering*
Dr Moez Dracif (applied probability including random graphs).

**KEELE UNIVERSITY**

*School of Computing and Mathematics* Keele University, Keele, Staffordshire ST5 5BG.
Tel: 01782 733258 Fax: 01782 734268
http://www.keele.ac.uk/scm/

Dr D. Bedford* (latin squares; designs)
Dr J. Preater (applied probability, random graphs)
Dr. P. Truman (Algebraic number theory and combinatorics)

*Lecture courses*
Advanced Combinatorics (40 lectures, 4\textsuperscript{th} year, Dr Bedford)
Codes and Cryptography (30 lectures, 3\textsuperscript{rd} year, Dr Truman)

**UNIVERSITY OF KENT**
School of Mathematics, Statistics and Actuarial Science Sibson Building, University of Kent, Canterbury, Kent CT2 7FS. Tel: 01227 827181 Fax: 01227 827932
http://www.kent.ac.uk/smsas/
Dr. C. D. Bowman (combinatorics and representation theories of diagrammatic algebras)
Prof P. Fleischmann (algebraic combinatorics, root systems, Mobius function)
Prof. S. Launois (q-calculus)
Dr B. Lemmens (applications of discrete geometry in dynamics and analysis)
Dr. A. F. Loureiro (orthogonal polynomials)
Dr R. E. Paget* (representation theory of symmetric groups and related algebras, plethysm)
Dr. C. M. A. Pech (cluster algebras)
Dr R. J. Shank (modular invariant theory)
Dr C. F. Woodcock (orthogonal Latin squares)

Research students
Reuben Green (Dr Paget)
Brendan Nolan (Prof Launois)
Alexandra Rogers (Prof Launois)

Lecture courses
Discrete mathematics (36 lectures, 3rd year, Dr Woodcock)
Graphs and combinatorics (36 lectures, 3rd year / M.Sc., Dr Lemmens)
Symmetries, Groups and Invariants (3rd year / M.Sc., Prof Fleischmann)

Current periodicals: electronic access to A, B, E, F, H, J, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, a, b, c, d, e, f, g.

KING’S COLLEGE LONDON
Department of Computer Science King's College, Strand, London, WC2R 2LS Tel 020 7848 2588 Fax: 020 7848 2851
http://www.dcs.kcl.ac.uk
Dr. Lorraine Ayad (combinatorics on words)
Prof. Maxime Crochemore (combinatorics on words)
Prof. Colin Cooper (random graphs, random algorithms)
Prof Tomasz Radzik (algorithms, combinatorial algorithms etc.).

Research Students
Panagiotis Charalampopoulos (combinatorics on words)

KINGSTON UNIVERSITY
Faculty of Science, Engineering and Computing Kingston University,
Penrhyn Road, Kingston-upon-Thames, KT1 2EE
http://sec.kingston.ac.uk/

School of Mathematics
Dr Gordon J. A. Hunter* (Applications of graph theory to Natural Language Modelling, Statistical Physics and Computational Networks)
Dr Mark Jones (Number Theory and Cryptography)
School of Computing and Information Systems
Prof Les Hatton (forensic software engineering).
Dr Luke Hebbes (software, turbocodes)
Dr Eckhard Pflügel (Cryptography and Information Security)

Lecture courses
Mathematical Programming (final year BSc, Dr Jones)
Internet security (final year BSc, Dr Pflügel);
Cryptography (MSc, Dr Pflügel)

The Department runs MSc Programmes in Network & Information Security, Networking & Data Communications.

Current periodicals: E, F, N, P, X, Y

UNIVERSITY OF LANCASER
Department of Mathematics and Statistics Fylde College, University of Lancaster, Lancaster LA1 4YF. Tel: 01524 593960 Fax: 01524 592681
http://www.maths.lancs.ac.uk
Dr. Natasha Blitvic (algebraic combinatorics, q-series and combinatorics of mathematical physics)
Prof A.G. Chetwynd (combinatorial applications in statistics)
Dr. Jan Grabowski (cluster algebras, quantum spaces and the combinatorics of their torus-invariant prime ideal spectrum)
Dr Lukasz Grabowski (graph limits)
Dr. Derek Kitson (geometric and combinatorial rigidity, operator theory, analysis)
Dr. Nadia Mazza (representation theory)
Dr Tony Nixon* (combinatorial rigidity, discrete geometry, graph theory, matroid theory)
Dr. Sean Prendiville (additive combinatorics)
Dr Bernd Schulze (discrete geometry, rigidity and flexibility of geometric constraint systems, graph theory, matroid theory)
Prof. Stephen Power (combinatorial rigidity, geometric constraint systems, rigidity operators).

Research Students:
Sean Dewar (Dr Kitson)
John Hewetson (Dr Nixon).
Hattie Serocold (Dr Schulze)

Lecture courses:
Discrete Mathematics (1st year, 20 lectures, Dr. David Pauksztello)
Combinatorics (3rd year, 20 lectures, Dr. Schulze)
Graph Theory (3rd year, 20 lectures, Dr. Nixon)

Current periodicals: E, F, T, U., Y, b, e

UNIVERSITY OF LEEDS
School of Mathematics University of Leeds, Leeds LS2 9JT. Tel: 0113 3435140 Fax: 0113 3435090.
http://www.amsta.leeds.ac.uk/
Dr V. V. Kisil (Applications of coherent states, wavelet transform and group representations in quantum mechanics, combinatorics, etc).
Prof H. D. Macpherson (permutation groups and related combinatorics, logic)
Prof R. J. Marsh (Cluster algebras and related combinatorics, Coxeter groups, Representation Theory)
Prof P. P. Martin (Representation theory, connections to Combinatorics)
Dr A. E. Parker (Representation theory and connections to Combinatorics)
Prof J. K. Truss (permutation groups, automorphisms of graphs and ordered structures, logic)

School of Computing University of Leeds, Leeds LS6 2HN Tel. 0113 343 5430 Fax 0113 343 5468
http://www.scs.leeds.ac.uk
Dr. Isolde Adler (graph algorithms, logic in computer science)
Prof Martin Dyer (algorithms and complexity)
Dr. Marc Hellmuth (combinatorics, algorithms)
Dr Haiko Müller* (algorithms, graph theory)
Dr Natasha Shakhlevich (deterministic scheduling theory, combinatorial optimisation, computational complexity)
Prof Kristina Vušković (graph theory, algorithms and combinatorial optimisation)

Research Students
Jake Horsfield
Samuel Wilson (Dr Müller)
Daniel Wood (Prof MacPherson)

Lecture courses
Introduction to Discrete Mathematics (22 lectures, 2nd year, Dr Penazzi)
Graph theory (33 lectures, 3rd year, Prof MacPherson)
Advanced Graph Theory (44 lectures, 4th year/M.Sc., Prof MacPherson)
Coding Theory (22 lectures, 3rd year, Prof Read)
Combinatorics (22 lectures, 3rd year, Dr Parker)
Mathematics for Computing (22 lectures, 1st year, Prof Vušković)

Current periodicals: (all online only): E, F, M, N, P, Q, T, V, X, Y, b,c,d,e,g,h.

UNIVERSITY OF LEICESTER
School of Informatics University of Leicester, University Road, Leicester LE1 7RH. Tel: 0116 252 3887 Fax: 0116 252 3604
https://le.ac.uk/informatics
Prof Thomas Erlebach* (combinatorial optimization, approximation algorithms, algorithmic graph theory)
Prof Richard M. Thomas (combinatorial group and semigroup theory, automata theory)

Post-doctoral researchers
Dr. Murilo Santos de Lima (online ooptimisation, computing with uncertainty).
Research Students
Anastasia Ioannou (modelling systems via Petri nets, Prof Mousavi and Prof Thomas)
Kleitos Papadopoulos (efficient graph algorithms, Prof Erlebach)
Jakob Spooner (temporal graphs, Prof Erlebach)

Lecture courses
Foundations of Computation (22 lectures, 1st year, Dr Ulidowski and Prof Moussavi)
Analysis and Design of Algorithms (30 lectures, 3rd year, Dr Fung)
Foundations of Cybersecurity (30 lectures, 3rd year, Dr Fung).
Discrete Event Systems (24 lectures, M.Sc., Dr de Vries)
Algorithms for Bioinformatics (24 lectures, M.Sc., Prof Erlebach)
Game Theory in Computer Science (24 lectures, M.Sc., Dr de Vries).

Seminars
There is a regular seminar program, see
http://www2.le.ac.uk/departments/informatics/news/researchevents
Seminars are currently being held online via Microsoft Teams – please contact Effie Law or Thomas Erlebach if you are interested in participating.

School of Mathematics and Actuarial Sciences, University of Leicester, University Road, Leicester LE1 7RH. Tel: 0116 252 3917 Fax: 0116 252 3915
https://le.ac.uk/mathematics
Prof, Sibylle Schroll (representation theory of algebras, homological algebra, matroids and hypergraphs)
Dr. Jason Semeraro (combinatorics, group theory, representations).

Post-docs
Dr Hipolito Treffinger (representation theory of algebras, (tau)-tilting theory, homological algebra, stability conditions)
Dr Yadira Valdivieso Diaz (mirror symmetry and geometric models in algebra)

Research Students
Aran Tattar (classification of quasi-hereditary structures, Prof Schroll)
Nick Williams (categorification of the combinatorics of Grassmannians, Prof Schroll)

Seminars
There is a regular seminar program, see
http://www2.le.ac.uk/departments/mathematics/research/pure/colloquium

Current periodicals: E, F, M, N, T, X, Y, b, d, h (paper)
E, F, M, N, P, Q, R, T, U, X, Y, b, c, d, e, f, g, h (electronic)

UNIVERSITY OF LINCOLN
School of Mathematics and Physics. College of Science, University of Lincoln, Brayford Pool Campus, Lincoln LN6 7TS.
mathsphysics@lincoln.ac.uk
Dr. Simon Smith (infinite permutation groups, combinatorics).
UNIVERSITY OF LIVERPOOL

Department of Computer Science University of Liverpool, Ashton Building, Liverpool L69 3BX, United Kingdom. Tel. 0151 795 4276 Fax: 0151 795 4235. http://www.csc.liv.ac.uk/

Prof P. Dunne (Complexity theory and algorithm design)
Prof L. Gasieniec (Distributed and parallel computing; network communication; algorithmic agent design; string matching)
Prof D. Kowalski (Distributed computing; network communication algorithms; fault tolerance; combinatorial and randomized data structures)
Prof P. Krysta (Algorithmic game theory, Algorithmic mechanism design, Combinatorial optimisation, Approximation algorithm)
Prof P. Spirakis (Algorithms & Complexity, Probabilistic methods in algorithms, algorithmic game theory)
Dr A. McCabe (auctions and mechanism design).
Dr I. Biktasheva (Computational mathematics; computational biology; autowaves and autowave vortices; computer modeling for cardiology; high performance computing)
Dr G. Christodoulou (Algorithmic game theory, Inefficiency of equilibria, Algorithmic mechanism design)
Dr M. Gairing (Algorithmic Game Theory, Approximation Algorithms)
Dr R. Martin (Distributive computing, randomized algorithm, enumerative combinatorics)
Dr I. Potapov (Design and analysis of algorithms; computational models and automata theory; decidability issues)
Dr R. Savani (Algorithmic Game Theory, Equilibrium Computation, Automated and Algorithmic Trading)
Dr D. Wojtczak (stochastic games, Markov chains, algorithmic game theory, control theory, modelling of biological and queueing systems)
Dr P. Wong (combinatorial algorithms, scheduling, packing, computational biology)
Dr M. Zito* (algorithms and complexity, random structures)

Research Fellows
Dr John Fearnley (Algorithmic Game Theory. Logic and Computation)
David Hamilton (visualisation and animation mechanisms for large networks)
Dr Jinshan Zhang (Algorithmic game theory, Algorithmic mechanism design)

Research Students
Sultan Alshamrani (cloud computing, network patrolling)
Thomas Carroll (String algorithms, Combinatorics, Bioinformatics, GPU Computing)
Jie Min (recognition of structural properties in complex networks)
Alkmini Sgouritsa (Algorithmic Mechanism Design, Algorithmic Game Theory, Algorithms, Complexity)
Tao Shang (migration mechanisms in social networks)
Bo Tang (Algorithmic game theory)

Lecture courses:
Comp108: Algorithmic Foundations (1st year)
Comp109: Foundations of Computer Science (1st year)
Comp202: Complexity of Algorithms (2nd year)
Comp218: Decision, Computation and Language (2nd year)
Comp309: Efficient Sequential Algorithms (3rd year)
Comp323: Introduction to Computational Game Theory (3rd year)
Comp324: Complex Information and Social Networks (3rd year)
Comp523: Advanced Algorithmic Techniques (Master’s)
Comp526: Applied Algorithmics (Master’s)
Comp557: Optimisation (Master’s)
Comp559: Computational Auctions and Mechanism Design (Master’s)

Seminar:
Each research group holds regular seminars.

With strong mathematical interests is also the NeST initiative:
http://www.liv.ac.uk/network-science-technologies

LONDON SCHOOL OF ECONOMICS
Department of Mathematics London School of Economics, Houghton Street, London WC2A 2AE. Tel: 0207 955 7732 Fax: 0207 955 6877
http://www2.lse.ac.uk/maths
Dr. Ahmad Abdi (combinatorics and optimisation).
Dr Peter Allen (extremal graph theory)
Prof Martin Anthony (computational learning theory, neural networks, theory of computing)
Dr Tugkan Batu (randomized computation, algorithms on massive data sets, property testing, statistical testing, streaming algorithms)
Prof Norman Biggs (algebraic graph theory, history of combinatorics, applications in physics and finance)
Dr Julia Böttcher (extremal graph theory)
Prof Graham Brightwell* (partially ordered sets, random structures)
Prof Jan van den Heuvel (graph theory, discrete mathematics, applications)
Dr. Rachel Kirsch (extremal combinatorics)
Prof Jozef Skokan (quasi-randomness, applications of the regularity lemma, Ramsey theory, extremal set theory, probabilistic combinatorics)
Prof Bernhard von Stengel (game theory and complexity)
Dr Konrad Swanepoel (combinatorial and discrete geometry, finite geometries, extremal combinatorics)
Dr Laszlo Vegh (approximation algorithms, combinatorics)
Dr. Liana Yepremyan (LSE Fellow: combinatorics)
Dr Giacomo Zambelli (combinatorics, combinatorial optimization)

Operational Research Group, Department of Management. London School of Economics, Houghton Street, London WC2A 2AE Tel: 0207 955 7653 Fax: 0207 955 6885
http://www.lse.ac.uk/collections/operationalResearch/
Prof Gautam Appa (Emeritus: orthogonal latin squares, mixed integer programming, robust regression)
Prof Gregory Sorkin (combinatorial optimisation).
Prof Richard Steinberg (operations management, combinatorial auctions, transportation networks)
Prof Paul Williams (Emeritus: linear and integer programming)

Research students
Attila Dankovics (Dr. Böttcher and Prof. Skokan)
 Nóra Frankl (Dr. Skokan and Dr. Swanepoel)
Eng Keat Hng (Dr. Allen and Dr. Böttcher)
Cedric Koh (Dr. Vegh and Dr. Zambelli)
Stanislas Kučera (Prof. van den Heuval and Prof. Sorkin)
Aaron Lin (Dr. Swanepoel and Prof. von Stengel)
Amadeo Squeglia (Dr. Böttcher and Prof. Skokan)
Xinyi Xu (Prof. Brightwell and Prof. van den Heuvel)

Lecture courses
Discrete Mathematics (20 lectures, 2nd year, Dr Skokan)
Combinatorial Optimization (20 lectures, M.Sc., Prof Appa)
Theory of Algorithms (20 lectures, 3rd year, Prof von Stengel)
Computational Learning Theory and Neural Networks (20 lectures, M.Sc., Dr Batu)
Algorithms and Computation (20 lectures, M.Sc., Prof von Stengel)
Discrete Mathematics and Complexity (20 lectures, M.Sc., Dr Skokan)
Information, Communication and Cryptography (20 lectures, M.Sc., Prof Biggs)

Seminars
Seminar on Discrete and Applicable Mathematics, Thursdays 2:00
CDAM Informal Workshop, Fridays 12:00
http://www2.lse.ac.uk/maths/Seminars

LONDON SOUTH BANK UNIVERSITY
Faculty of Business, Computing and Information Management B.C.I.M., London South
Bank University, 103 Borough Road, London SE1 0AA. Tel: 0207 928 8989 Fax: 0207 815 7793
http://www.lsbu.ac.uk/bcim/depts/msfs/
Dr Elroy Benjamin
Dr Carrie Rutherford* (graph and matroid theory)

Lecture courses
Discrete mathematics occurs in the first year of all the computing courses (Dr Benjamin). Applications of combinatorics appear in the 2nd year module Business Manamagnet with Analytics (Dr Rutherford)

Study group/working paper series:
http://myweb.lsbu.ac.uk/~ruthercg/MathsStudyGroup/

Current periodicals: A B H J L M a c d N O P Q R S T U X Y Z f
UNIVERSITY OF MANCHESTER
School of Mathematics University of Manchester, Oxford Road, Manchester M13 9PL. Tel: 0161 275 5800 Fax: 0161 275 5819
http://www.manchester.ac.uk/maths/
Dr. Ben Barber (extremal combinatorics)
Dr Y. Bazlov (representation theory, including interactions with combinatorics)
Prof A.V. Borovik (matroids and generalisations, Coxeter matroids, Coxeter groups)
Prof D. S. Broomhead (applied tropical algebra and geometry, dynamics on graphs)
Prof R. M. Bryant (emeritus: groups, Lie algebras)
Dr M. Johnson* (tropical algebra and geometry, free Lie algebras and Young tableaux)
Prof. M. Kambites (tropical algebra and geometry, combinatorial group and semigroup theory, automata, computational complexity and cryptography)
Dr H. Khudaverdian (Lie groups and algebras; symmetric functions; Schur functions; Young tableaux; combinatorics in geometry)
Prof P. J. Laycock (Emeritus: experimental design)
Prof J. Paris (logic, including interactions with combinatorics)
Prof N. Ray (combinatorial Hopf algebras, geometry and combinatorics of polytopes)
Prof P. J. Rowley (group theory)
Dr R. Sandling (Steenrod algebra: lattices)
Dr. Ben Smith (combinatorics, tropical geometry)
Prof R. Stöhr (Group theory and Lie algebras, including combinatorial aspects and methods).

Research students
Jonathan Chapman
Borys Kuca

Lecture courses
Discrete Mathematics (24 lectures, 2nd year, Dr Mark Muldoon)
Coding Theory (24 lectures, 3rd year, Dr Bazlov)
Combinatorics and Graph Theory (24 lectures, 3rd year, Dr Gabor Megyesi)
Mathematical Programming (24 lectures, 3rd year, Mr. Mike Tso)
Computation and Complexity (32 lectures, 4th year/MSc, Dr Kambites)

Current periodicals: A, B, E, F, H, I, L, M, N, P, R, S, T, U, V, X, Y, Z, a, b, c, d, e, f, g, h.

MIDDLESEX UNIVERSITY
Design Engineering and Mathematics Department School of Science and Technology, Middlesex University The Burroughs, London NW4 4BT
Tel: 020 8411 4129
https://www.mdx.ac.uk/about-us/what-we-do/faculty-of-science-and-technology
Dr Murad Banaji (graph theory and applications to chemical reactions).
Dr Thomas D. Bending* (Bent functions; finite geometries; lotteries).
Dr. Jon Elmer (invariant theory, combinatorics)
Lecture Courses
Logic and Structures (24 lectures, 1st year, Dr Matt Jones and Dr Jon Elmer)
Discrete Mathematics and Geometry (24 lectures, 2nd year, Dr Thomas Bending and Dr Brendan Masterson)
Combinatorics (12 lectures, 3rd year, Dr Thomas Bending and Dr Jon Elmer)


UNIVERSITY OF NEWCASTLE UPON TYNE
School of Mathematics and Statistics
Newcastle University, Newcastle upon Tyne NE1 7RU. Tel: 0191 222 6000 Fax: 0191 222 8020
http://www.ncl.ac.uk/math/
Dr Martina Balagovic* (representation theory, in particular of quantum groups, DAHA and their degenerations, and Lie superalgebras; links to combinatorics through type A representation theory, finite characteristic, and diagram algebras)
Dr A. J. Duncan (combinatorial group theory, one-relator products of groups, decision problems and equations over presentations of groups)
Dr O. H. King (subgroup structure of classical groups, finite geometry)
Dr Stefan Kolb (representation theory of Lie algebras and quantum groups, connections to combinatorics)
Prof S. Rees (algorithms in group theory and geometry, automatic groups and related classes of groups, connections between group theory and formal language theory)
Dr Alina Vdovina (geometric group theory, noncommutative geometry, knot theory, Riemannian geometry)

Lecture courses
Enumeration and Combinatorics (24 lectures, 2nd year, Dr Vdovina)
Geometries and Designs (24 lectures, 3rd year, Dr Vdovina)
Coding Theory (24 lectures, 3rd year, Prof Rees).

Almost all current issues are electronic access only.

NOTTINGHAM TRENT UNIVERSITY
School of Science and Technology, Nottingham Trent University, Clifton Campus, Nottingham NG11 8NS. Tel: 0115 848 8417
http://www.ntu.ac.uk/sat/about/academic_teams/phys_maths.html

Prof. Nadia Chuzhanova (bioinformatics, combinatorics on words)
Dr. Jonathan J. Crofts (computational graph theory, complex networks, combinatorics, data-mining, computational biology)
Dr. Archontis Giannakidis (deep learning on graphs with graph convolutional networks, max flow min-cut optimization for biomedical image analysis, graph cuts for Markov random fields in computer vision)
Dr. Timothy J. Hetherington* (graph theory, particularly graph colourings)
Dr. Jason P. Smith (topological combinatorics, graph theory, permutation patterns, community detection, computational biology)
Dr. Colin M. Wilmott (Algebra, combinatorics, geometry, quantum coding, quantum cryptography and entanglement theory)

Lecture Courses:
Discrete Mathematics & Computational Complexity (48 lectures, 2nd year, Dr. Giannakidis);
Graph Theory and Combinatorics (24 lectures, 3rd year, Dr. Hetherington and Dr. Smith)
Coding Theory and Cryptography (24 lectures, 3rd and 4th year, Dr. Wilmott and Dr. Hetherington);
Optimisation (24 lectures, 3rd year, Dr. Giannakidis).

Current periodicals: several (electronic access only).

THE OPEN UNIVERSITY
Department of Mathematics and Statistics The Open University, Walton Hall, Milton Keynes MK7 6AA. Tel: 01908 653479 Fax: 01908 653744
http://www.mathematics.open.ac.uk/
Dr Silvia Barbina (permutation groups, automorphism groups of countable structures)
Dr Robert Brignall (permutation classes, relational structures, graph theory, well quasi order)
Dr Katie Chicot (infinite combinatorics)
Prof Mike Grannell (Emeritus: combinatorial design theory, combinatorial computing, Steiner systems, topological design theory)
Prof Terry Griggs (Emeritus: combinatorial design theory, combinatorial computing, Steiner Systems, topological design theory, quasigroups and loops)
Prof Uwe Grimm (enumerative combinatorics, words, tilings, applications to physics)
Dr Fred Holroyd (retired: fractional graph colourings, graceful and related tree labellings, Erdős-Ko-Rado properties of graphs)
Dr Kathleen Quinn* (designs and their applications)
Prof Jozef Širáň (topological graph theory, Cayley graphs)
Dr Bridget Webb (automorphisms of designs, Latin squares, infinite designs)
Prof Robin Wilson (Emeritus: history of graph theory and combinatorics, graph colourings)
Dr. Reem Yassawi (combinatorics on words, automatic sequences, topological dynamics and ergodic theory, aperiodic order)

Visiting research fellows
Dr Grahame Erskine (vertex-transitive and Cayley graphs in the degree-diameter and the degree-girth problem)

Research students
Kirstie Asciak (Prof Širáň: part-time)
Dan Cocks (graph parameters, Dr. Brignall)
Olivia Jeans (topological graph theory - regular maps, external symmetries and highly symmetric maps, Prof Širáň)
Robert Lewis (analysis and construction of extremal highly symmetric graphs with given metric properties: Prof Širáň and Dr Webb: part-time)
James Tuite (vertex-transitive and Cayley graphs and embeddings: Prof Širáň)

Courses
MT365: Graphs, networks and design (3rd year)
M836: Coding Theory (M.Sc.).
M840: Dissertation in mathematics (algebraic graph theory option) (M.Sc.).

Current periodicals: A, B, C, D, E, F, H, I, J, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z, a, b, c, d, e, f, g, h, i (some electronic access only).

UNIVERSITY OF OXFORD
The Mathematical Institute 24-29 St. Giles, Oxford OX1 3LB. Tel: 01865 273525 Fax: 01865 273583
http://www.maths.ox.ac.uk
Prof Ben Green (additive combinatorics)
Dr Raphael Hauser (continuous optimization, applied probability)
Prof Peter Keevash* (extremal and probabilistic Combinatorics)
Dr Robert Leese (channel assignment problems)
Prof. Oliver Riordan (probabilistic combinatorics)
Dr Tom Sanders (additive combinatorics)
Prof Alex Scott (combinatorics, graph theory)
Prof Dominic J. A. Welsh (retired: combinatorics, applied probability, complexity)

Research fellows/assistants
Dr. Christoph Koch (Phase transitions, percolation processes, real-world networks, structural and extremal graph theory)
Dr. Daniel Korándi (extremal and probabilistic combinatorics and discrete geometry)
Dr., Gal Kronenberg (extremal and probabilistic combinatorics)
Dr. Jason Long (combinatorics)
Dr. Sarah Peluse (additive combinatorics)
Dr. Alexander Roberts (extremal and probabilistic combinatorics)
Dr. George Shakan (additive combinatorics)
Dr. Katherine Staden (extremal and probabilistic combinatorics)

Department of Statistics 1 South Parks Road, Oxford OX1 3TG. Tel: 01865 272860 Fax: 01865 272595
http://www.stats.ox.ac.uk
Prof Christina Goldschmidt (probability theory and combinatorics)
Prof Colin J. H. McDiarmid (probability and algorithms, probabilistic methods in combinatorics, colouring problems)
Dr James Martin (probability theory, links to statistical physics and theoretical computer science)
Prof Gesine Reinert (network statistics (including small world graphs), applied probability).

Department of Computer Science  Wolfson Building, Parks Road, Oxford OX1 3QD Tel: 01865 73838 Fax: 01856 73839
http://www.cs.ox.ac.uk
Prof Peter Jeavons (algorithms and complexity, constraint satisfaction)
Prof Leslie.A. Goldberg (combinatorial algorithms, complexity of counting and sampling)
Prof Paul Goldberg (algorithms, game theory)
Prof Georg Gottlob (algorithms and complexity)
Dr. Pavel Semukhin (reachability problems, automatic structures, computational learning theory, computability theory)
Dr. Marcin Wrochna (combinatorics, constraint satisfaction).
Dr Stanislav Živný (discrete optimisation, constraint satisfaction, generalisations of submodularity)

Research students
James Aaronson (Prof. Green)
Daniel Altman (Prof. Green)
Candida Bowtell
Zachary Chase (Prof. Green)
Carla Groenland (Prof. Scott)
Hannah Guggiari (Prof. Scott)
Jane Tan (Prof. Scott)

Lecture courses
Communication theory (16 lectures, 3rd year, Dr. D. Stirzaker)
Integer programming (16 lectures, 3rd year, Dr Hauser)
Graph Theory (8 lectures, 2nd year, Prof McDiarmid)
Graph Theory (16 lectures, 4th year, Prof Riordan)
Probabilistic Combinatorics (16 lectures, 4th year, Prof McDiarmid)

Seminar Combinatorial theory (Tuesdays at 2.30 p.m.)

Current periodicals: D, E, J, K, L, N, P, Q, T, Y

UNIVERSITY OF PORTSMOUTH
Department of Mathematics Buckingham Building, Lion Terrace, Portsmouth, Hampshire PO1 3HE Tel: 023 9284 6367 Fax: 023 9284 6364
http://www.port.ac.uk/departments/academic/maths
Dr A. Makroglou*
Current periodicals: X, Y, b

QUEEN MARY, UNIVERSITY OF LONDON
Prof David K. Arrowsmith (graph colourings, percolation theory, interaction models and knot invariants)
Prof Rosemary A. Bailey (Emerita Professor: design of experiments, latin squares and their generalisations, designs for complicated block structures, association schemes, partition species)
Dr John N. Bray (group theory)
Prof Peter J. Cameron (Emeritus Professor: groups and their operands, graphs, codes, designs, models, orbits and enumeration)
Dr Matt Fayers (representation theory and combinatorics)
Dr Alex Fink (Combinatorics, tropical geometry and matroid theory)
Dr Felix Fischer (mechanism design, optimization, algorithms)
Prof Anthony Hilton (Emeritus Professor: graph theory, design theory, finite set systems)
Prof Bill Jackson (graph theory, discrete geometry, matroid theory)
Prof Mark Jerrum (computational complexity, probabilistic computation, the complexity of combinatorial enumeration)
Dr J. Robert Johnson* (graph theory and combinatorics)
Prof Thomas Müller (group theory, combinatorics, analysis)
Prof Thomas Prellberg (lattice statistical mechanics, enumerative and asymptotic combinatorics)
Prof Leonard H. Soicher (Emeritus professor: algebraic and computational combinatorics)
Dr Dudley S. Stark (probability and combinatorics)
Dr Mark Walters (probabilistic combinatorics, percolation, extremal problems)
Dr Justin Ward (optimisation, operational research, algorithms)
Prof Robin Whitty (Honorary Research Associate: combinatorics)
Prof Robert A. Wilson (Emeritus Professor: group theory and representation theory, especially computational aspects)

Researchers

Research students
Samuel Gardner (Dr. Fink)
Anum Khalid (Prof. Prellberg)
Teerasak Khoploykang (Prof. Jackson)
Anitha Rajkumar (Prof. Jackson)
William Raynaud (Dr Ellis)

Lecture courses
Linear Programming and Games (36 lectures, 2nd year)
Combinatorics (36 lectures, 3rd year)
Coding Theory (36 lectures, 3rd year)
Cryptography (36 lectures, 3rd year)
Random Processes (26 lectures, 3rd year) Advanced combinatorics (24 lectures, M.Sc)
Graphs and Networks (24 lectures, M.Sc)
Seminars  Combinatorics study group (Fridays 4:00pm, Dr Ellis and Dr Ward)
https://www.qmul.ac.uk/maths/research/seminars/combinatorics-study-group/

Current periodicals: A, B, E, F, H, I, J, L, M, N, P, Q, R, S, T, U, V, X, Y, a, b, c, d, e, f, g.
Print only for g, electronic only for A, I, J, L, M, Q, S, a, c, d, e, f. All others available both electronically and in print.

UNIVERSITY OF READING
Department of Mathematics University of Reading, Whiteknights, P.O. Box 220 Reading, Berks RG6 6AX. Tel: 0118 378 8996 Fax: 0118 931 3423
Prof A. J. W. Hilton* (graph theory, design theory, finite set systems)
Dr W. R. Johnstone (graph theory)
Dr D. S. G. Stirling (graph theory)

Lecture courses
Linear Algebra and Coding Theory  (44 lectures, Dr T. Kuna)

Current periodicals: C, N, P, S, X, Y, b

ROYAL HOLLOWAY, UNIVERSITY OF LONDON
Department of Mathematics Royal Holloway, Egham Hill, Egham, Surrey TW20 0EX. Tel: 01784 443093 Fax: 01784 430766
http://www.ma.rhul.ac.uk
Prof Simon R. Blackburn* (group theory, algebra and combinatorics of data communications, coding theory, cryptography)
Prof Carlos Cid (cryptography, security, computational algebra)
Prof Jason Crampton (applications of discrete mathematics to access control)
Prof Rainer Dietmann (analytic number theory, diophantine equations, additive combinatorics)
Prof John W. Essam (applications of graph theory, combinatorics, numerical analysis and computing techniques to problems in critical phenomena theory, in particular to phase transitions, conduction in disordered materials, polymer science, epidemic models and cellular automata)
Prof Stefanie Gerke (graph theory, combinatorics, random structures and algorithms)
Prof Keith M. Martin (cryptography and information security)
Prof James McKee (Salem numbers, Pisot numbers, Mahler measure, elliptic curves, computational number theory, algebraic graph theory)
Prof Chris Mitchell (cryptography and information security)
Prof Iain Moffatt (algebraic combinatorics, topological graph theory, knot theory)
Prof Sean P. Murphy (spatial probability, cryptography)
Dr Siaw-Lynn Ng (combinatorics, finite geometry, applications to information security)
Prof. Mark Wildon (representation theory, group theory, combinatorics)

Visiting Professors Prof Steve Babbage, Prof Nelson Stephens, Prof Mike Walker (Vodafone Chair in Communications)
Department of Computer Science Royal Holloway, Egham Hill, Egham, Surrey TW20 0EX.
Tel: 01784 443421 Fax: 01784 443420
http://www.cs.rhul.ac.uk

Prof Dave Cohen (constraint satisfaction, graphs and hypergraphs)
Prof Gregory Gutin (graphs and combinatorics, combinatorial optimisation, access control)
Dr Iddo Tzameret (theory of computation);
Dr Magnus Wahlström (combinatorial algorithms)

Research students
Jiangdong Ai (Prof. Gerke) and Prof Gutin)
Elizabeth Berners-Lee (cryptography, Prof. Cid)
Joshua Coyston (Prof. McKee)
Naomi Farley (access control, Prof Crampton and Prof Gutin)
Liam Medley (Prof. Blackburn and Prof. Cid)
Laurence O'Toole (DES, MARS, feistel networks)
Eamonn Postlethwaite (Prof. Blackburn and Dr. Albrecht)
Liam Medley (Prof. Blackburn and Prof. Cid)
Luke Stewart (Prof. Blackburn)
Maya Thompson (Prof Moffatt)

Lecture courses

Graphs and Optimisation (33 lectures, 2nd year)
Cipher systems (33 lectures, 3rd year)
Error correcting codes (33 lectures, 3rd year)
Theory of error correcting codes (44 lectures, p/g)
Channels (33 lectures, p/g)
Combinatorics (33 lectures, p/g)
Principles of Algorithm Design (33 lectures, p/g)
Public Key Cryptography (33 lectures)
Advanced Cypher Systems (44 lectures, p/g)
Applications of Field Theory (33 lectures, p/g)

The Department of Mathematics runs taught M.Sc. programmes in Information Security,
Mathematics of Cryptography and Communications, and Mathematics for Applications.

Seminars Pure Maths Seminar (Dr Moffatt, Dr. Martin Widmer) (Tuesdays at 2.00 p.m. in
room 219).
Information Security Seminar (Dr Lorenzo Cavallaro) (Thursdays 11.00 in Room C229).


UNIVERSITY OF ST. ANDREWS
School of Mathematics and Statistics The Mathematical Institute, North Haugh, St.
Andrews, Fife KY16 9SS. Tel: 01334 463745 Fax: 01334 463748
http://www.mcs.st-and.ac.uk
Prof R. A. Bailey (design of experiments, latin squares and their generalisations, designs for complicated block structures, association schemes, partition species)
Dr. J. Belk (geometric group theory, automatic structures)
Dr. C. Bleak (geometric group theory, automatic structures)
Prof P. J. Cameron (groups and their operands, graphs, codes, designs, models, orbits and enumeration)
Dr. C. M. Campbell (combinatorial group theory, combinatorics of semigroup presentations)
Dr. T. Coleman (Ramey theory, logic)
Prof K. J. Falconer (combinatorial geometry)
Dr. J. Fraser (analysis and combinatorics)
Dr S. Huczynska (Applications of finite fields, permutation arrays, combinatorial designs)
Dr. N. Jurga (dynamical systems, ergodic theory, fractal geometry)
Dr. I. Kolossvary (fractals)
Dr. Y. Len (tropical geometry, non-Archimidean geometry, applications)
Dr J. H. McCabe (graph theory, number theory)
Dr J. D. Mitchell (combinatorial and topological applications of group and semigroup theory)
Dr. J. J. O'Connor (combinatorial group theory)
Prof L. Olsen (analysis and combinatorics)
Dr M. R. Quick (group theory)
Prof E. F. Robertson (combinatorial group theory, combinatorics of semigroup presentations)
Prof C. M. Roney-Dougal* (finite permutation and matrix groups, computational group theory, geometric group theory)
Prof N. Ruškuc (combinatorics of words, mappings, permutations: combinatorial semigroup theory)
Dr. L. Theran (combinatorics, geometry, algorithms)
Dr M. Todd (ergodic theory)

Research Students
Mr. R. Al-Kohli
Mr. M. Alijohani
Mr. S. Burrell
Mr. A. Clayton
Mr. B. De Witt
Mr. L. Elliott
Mr. F. Flores Brito
Mr. S. Freedman
Mr. S. Jurina
Miss V. Kelsey
Miss N. Khalid
Mr. C. Millar
Mr. A. Mordcoivich
Mr. G O’Reilly
Mr. C. Russell
Mr. F. Smith
Mr. L. Stott
Mr. N. Utto

Lecture courses
Combinatorics and Probability (24 lectures, 2nd year)
Finite mathematics (24 lectures, 3rd/4th year, alternate years)
Graph Theory (24 lectures, 3rd/4th year, alternate years)
Advanced combinatorics (24 lectures, 4th/5th year, alternate years)
Automata, Languages and complexity (24 lectures, 3rd/4th year, alternate years)
Various courses involving algorithms and complexity at 3rd/4th year level.

Seminars
- Pure Mathematics Colloquium 4pm Thursdays
- Algebra and Combinatorics Seminar 4pm Wednesdays
- CIRCA Seminar 1pm Thursdays

School of Computer Science
North Haugh, St Andrews, Fife KY16 9SX.
Tel: 01334 463253 Fax: 01334 463278
http://www.cs.st-andrews.ac.uk/
Dr. Ruth Hoffmann (graph algorithms)
Dr. Chris Jefferson (computational algebra)
Dr. Alexander B. Konovalov
Prof Steve A. Linton (computational algebra: systems, algorithms and applications)
Dr. Michael Torpey (computational algebra)

Research students
- Miss Mun See Chang

Current periodicals:
- A, B, E, F, H, J, L, M, N, P, Q, R, S, U, V, X, Y, Z, a, b, c, d, e, f, g (all online only).

UNIVERSITY OF SALFORD

Mathematics Section, School of Computing, Science and Engineering
University of Salford, Salford M5 4WT.
http://www.cse.salford.ac.uk
Emeritus Professor: Ray Hill* (coding theory, finite geometry)
Current periodicals: T

UNIVERSITY OF SHEFFIELD

School of Mathematics and Statistics
University of Sheffield, Hicks Building, Hounsfield Road, Sheffield S3 7RH. Tel: 0114 222 3752. Fax 0114 222 3809

Dr Paul Johnson (algebraic geometry, combinatorics)
Dr Jonathan Jordan (probability, random graphs)

Research staff
- Mark Yarrow (preferential attachment graphs, Dr. Jordan).

UNIVERSITY OF SOUTHAMPTON

School of Mathematics
University of Southampton, Southampton SO17 1BJ. Tel: 023 8059 3612 Fax: 023 8059 5147
http://www.maths.soton.ac.uk
Prof. J. Grbić (combinatorics interacting with topology)
Prof G. A. Jones* (permutation groups, connections between groups and graphs)
Prof R. C. King (retired: representations theory of Lie algebra and superalgebras, applications in Physics)
Dr E. K. Lloyd (retired: combinatorics and graph theory including applications and history)
Prof C. N. Potts (combinatorial optimization and scheduling)
Prof D. Singerman (discontinuous groups with applications to Riemann surfaces and the theory of maps)

**Department of Management** 023 8059 3966
[http://www.management.soton.ac.uk](http://www.management.soton.ac.uk)
Dr Julia A. Bennell

**Lecture courses**
- Combinatorics and Graph theory (13 lectures, 1st year, Dr Ann Hirst)
- Theory of numbers (36 lectures, 3rd/4th year, Dr Mary Jones)
- Scheduling (10 lectures, M.Sc., Prof Potts)
- Finite Mathematics (36 lectures, 3rd/4th year, Dr Jim Renshaw)
- Graph Theory (36 lectures, 3rd/4th year, Dr Renshaw)


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**UNIVERSITY OF SOUTH WALES**

**Division of Mathematics and Statistics** University of South Wales, Pontypridd, Mid Glamorgan CF37 1DL. Tel: 01443 482136 Fax: 01443 482169
[http://www.southwales.ac.uk/maths/research/](http://www.southwales.ac.uk/maths/research/)

Associate Professor Nick Gill* (permutation groups, homogeneous relational structures, finite geometries)
- Dr. Liam Harris (combinatorial problems)
- Dr. Angelica Pachon (stochastic processes, random graphs, scenery reconstruction)
- Dr Stephanie Perkins (coding theory, synchronization, combinatorial puzzles)
- Emeritus Prof Derek H. Smith (coding theory, permutation codes, DNA codes, frequency assignment)

**Research students**
- Ms Anna Skelt (magic squares)
- Mr Scott Hudson (permutation groups, homogeneous relational structures)

**Lecture courses**
- Combinatorics and Networks (2nd year, Dr. Perkins and Dr. Pachon)
- Codes and Information (3rd year, Dr. Perkins, Assoc. Prof. Gill)
- Cryptography (3rd year, Dr. Perkins, Mr. Griffiths)
- Knots (4th year, Assoc. Prof. Gill)

Current periodicals: J, N, T, X, Y, e. T is online only after Vol. 51. J is only from 2004.

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**STAFFORDSHIRE UNIVERSITY**
Faculty of computing, Engineering and Technology, Staffordshire University, Leek Road, Stoke-on-Trent, ST4 2AZ. Tel/Fax: 01782 294026
Prof Brian Burrows
Dr Sarah J. Easton*

UNIVERSITY OF STIRLING
Mathematics and Statistics Group, Institute of Computing Science & Mathematics The University of Stirling, Institute of Computing Science and Mathematics, Stirling, Scotland FK9 4LA. Tel: 01786 467460 Fax: 01786 464551
http://www.cs.stir.ac.uk/maths/
Dr P. S. Jackson (algebraic graph theory)
Prof P. Rowlinson* (Emeritus: algebraic graph theory)

Lecture courses (online at least to begin in 2020-21)
Discrete structures (44 lectures, 1st year)
Combinatorics (32 lectures, 3rd/4th year, alternate years)
Algebra and codes (32 lectures, 3rd/4th year, alternate years)


UNIVERSITY OF STRATHCLYDE
Department of Mathematics and Statistics Livingstone Tower, 26 Richmond Street, Glasgow G1 1XH Tel: 0141 548 3804 Fax: 0141 548 3345
https://www.strath.ac.uk/science/mathematicsstatistics/

Dr David Bevan* (enumerative combinatorics, permutation patterns)
Dr Sergey Kitaev (combinatorics, discrete analysis, graph theory, formal languages)
Dr Philip Knight (network theory, algebraic structure of networks)
Prof Einar Steingrímsson (algebraic and enumerative combinatorics)

Research student
Mr Kittitat Iamthong (graph theory, formal languages)
Mr Daniel Threlfall (random permutations, Dr. Bevan)

Lecture Courses
Applying Mathematics 2: Graph Theory (1st year)
Mathematical Introduction to Networks (4th year)
Networks in Finance (MSc)

UNIVERSITY OF SUSSEX
Department of Mathematics University of Sussex, Brighton, East Sussex BN1 9QH. Tel: 01273 877345 Fax: 01273 678097
http://www.sussex.ac.uk/maths
Prof J. W. P. Hirschfeld* (finite geometry, algebraic geometry, coding theory)

Research students
Awss Jabbar (finite geometry, Prof. Hirschfeld)

Lecture courses
Coding Theory (36 lectures, 3rd/4th year, Prof Hirschfeld)
Cryptography (36 lectures, 3rd/4th year, Dr K. Blyuss)
Current periodicals: None

SWANSEA UNIVERSITY
Mathematics Department Swansea University, Singleton Park, Swansea SA2 8PP Tel:
01792 295457 Fax: 01792 295843
http://www-maths.swan.ac.uk
Dr F. W. Clarke
Dr A.D. Thomas

Lecture courses
Combinatorics (20 lectures, 3rd year)
Applied algebra (40 lectures, 3rd year, Dr Clarke)

TEESSIDE UNIVERSITY.
School of Science, Engineering & Design Teesside University, Middlesbrough
TS1 3BX, United Kingdom

Dr. Anna Huber (combinatorics)
Dr. Sven-Ake Wegner (analysis on graphs).

UNIVERSITY COLLEGE LONDON
Department of Mathematics University College London, Gower Street, London WC1E 6BT.
Tel: 020 7679 2839 Fax: 020 7383 5519
http://www.ucl.ac.uk/Mathematics
Prof I. Bárány (Visiting professor: convex geometry, geometry of numbers, theory of integer programming)
Prof. A. Granville (number theory, combinatorics)
Dr. J. A. Haight (Combinatorics)
Prof M. Laczkovich (real analysis)
Prof D.G. Larman (geometric analysis, combinatorics)
Prof P. McMullen (Emeritus: convexity, regular polytopes)
Prof A. Sokal (combinatorial aspects of mathematical physics)
Dr J. Talbot* (combinatorics, complexity theory)

Department of Economics University College London, Gower Street, London WC1E 6BT
Tel: 020 7679 5888 Fax: 020 7916 2775
http://www.ucl.ac.uk/economics/
Prof K. Binmore (Emeritus: game theory)
Department of Computer Science  University College London Gower Street 66-72, WC1E 6EA London, UK
http://www.cs.ucl.ac.uk/home/
Prof. S. Severini (physics of information, combinatorial links)

Lecture courses
Optimisation (2nd year)
Graph Theory and Combinatorics (3rd year)
Geometry of numbers (3rd year, Prof Larman)
Computational Geometry (3rd year, Prof McMullen)
Game theory (3rd year, Prof Binmore)

Seminar Colloquium (Tuesdays at 4.00 p.m.)
Informal Seminar  (Wednesdays at 4.30pm)

VODAFONE GROUP UK.
Vodafone House, 1 The Connection, Newbury RG14 2FN. Tel: 01635 33251 Fax: 01635 31127
http://www.vodafone.com
Prof. S. Babbage*
Dr. N. Bone

The group is interested in cryptography, randomness, statistics, auctions and game theory.

Current periodicals: Z

UNIVERSITY OF WARWICK
Coventry, CV4 7AL

Department of Computer Science  Tel: 0247652 3193 Fax: 024 7657 3024
http://www.dcs.warwick.ac.uk/
Dr. Sayan Bhattacharya (Dynamic graph algorithms, data structures, online algorithms, streaming algorithms, and algorithmic game theory)
Prof Graham Cormode (managing and working with large amounts of data, with particular emphasis on privacy and anonymization, and large scale analytics)
Prof Artur Czumaj (algorithms and data structures, graph theory, game theory)
Dr Charilaos Efthymiou (algorithms, discrete mathematics, and statistical physics)
Dr Matthias Englert (analysis and design of algorithms and data structures, approximation algorithms)
Dr. Tom Gur (combinatorics, foundations of computer science)
Dr Marcin Jurdziński (algorithmic game theory, logic in computer science, optimization)
Dr Ranko Lazić (computer science and combinatorics)
Dr. Torsten Mütze: (graph theory, combinatorics, discrete algorithms, and their applications to real-world problems)
Dr. Igor Carboni Oliveira (computational complexity theory and its connections to algorithms, combinatorics, and mathematical logic)
Prof Mike Paterson (computational complexity, analysis and design of algorithms)
Dr. Ramanujan Sridharan (Algorithms and complexity, fixed-parameter and approximation algorithms with a focus on graph and constraint satisfaction problems)

**Warwick Business School** Tel. 024 7652 8220 Fax: 024 7652 4539
http://www.wbs.ac.uk
Prof Steve Alpern (game theory, search games)
Prof Jurgen Branke (combinatorial optimisation)
Prof Bo Chen (combinatorial optimisation: game theory)
Dr Vladimir Deineko (combinatorial optimisation, polynomially solvable cases of NP-hard problems)
Dr Xuan Vinh Doan (combinatorial optimisation)
Dr Nalan Gulpinar (combinatorial optimisation)
Dr Arne Strauss (combinatorial optimisation)

**Warwick Mathematics Institute** Tel. 024 7652 4661 Fax: 024 7652 4182.
http://www.maths.warwick.ac.uk
Dr. Sam Chow (number theory/combinatorics)
Dr. Agelos Georgakopoulos (random walks, electrical networks, infinite graphs)
Dr. Jan Grebik (measurable combinatorics, infinite graph theory)
Dr. Mathias Hamann (combinatorics, infinite graph theory)
Dr. John Haslegrave (random and extremal graphs)
Prof Roman Kotecký (Probability; statistical physics; theory of phase transitions)
Prof Daniel Král’ (extremal and probabilistic combinatorics)
Dr. Hong Liu (extremal combinatorics, Ramsey theory and random graphs)
Prof Vadim Lozin (algorithmic and structural graph theory)
Prof Oleg Pikhurko* (Extremal combinatorics)

**Research Students**
Bogdan Alecu (graph theory, Prof. Lozin)
Sam Coy (distributed and parallel algorithms, Prof Czumaj)
Marcel de Sena Dall’Angol (algorithms and combinatorics, Dr Gur)
Irene Gill (Dr Liu and Prof Pikhurko)
Peter Keys (dynamic algorithms, Dr Bhattacharya)
George Kontogeorgiou (Dr Georgakopoulos, graph theory, especially structural and topological graph theory)
Mahdi Noorizadegan (facility location and vehicle routing, Prof Chen & Dr Gulpinar)
Christoforos Panagiotis (percolation, Dr Georgakopoulos)
Bruno Pasqualotto Cavalar (computational complexity and combinatorics, Dr Oliveira)
Yani Pehova (extremal combinatorics, Prof Král’)
Elena Zamaraeva (combinatorial properties of threshold and monotone Boolean functions, Prof Lozin)

**Lecture courses**
Discrete Mathematics and its Applications 1 and 2 (1st year)
Combinatorics (2nd year)  
Algorithm Design (2nd year)  
Algorithmic Graph Theory (2nd year)  
Mathematical Programming (2nd year)  
Combinatorial Optimisation (2nd year)  
Probability and Discrete Mathematics (2nd year)  
Combinatorics II (3rd year)  
Complexity of Algorithms (3rd year)  
Efficient Parallel Algorithms (3rd year)  
Advanced Topics in Algorithms (3rd year)  
Random Discrete Structures (3rd year)  
Graph Theory (4th year)  
Modelling and Algorithmic Analysis of Systems (4th year)  
Algorithmic Game Theory (4th year)  
Mathematical Programming and Heuristics (MSc)  
Operational Research (4th year)  
Combinatorial Optimisation (MSc)  

Some of the people listed above at Warwick are affiliated with DIMAP, the Centre for Discrete Mathematics and its Applications; see [http://www.dcs.warwick.ac.uk/dimap](http://www.dcs.warwick.ac.uk/dimap) for details.

**UNIVERSITY OF THE WEST OF ENGLAND, BRISTOL**

*Faculty of Computing, Engineering and Mathematical Sciences* University of the West of England, Coldharbour Lane, Bristol BS16 1QY. Tel: 0117 344 2783 Fax: 0117 344 2734 [http://www.cems.uwe.ac.uk/amg/](http://www.cems.uwe.ac.uk/amg/)

Dr Rhys Gwynllyw (graph theory and its applications)  
Dr Ana Sendova-Franks (graph theory and its applications)  
Dr Vadim Zverovich* (graph theory, combinatorial optimisation)

*Lecture courses*  
Discrete Mathematics (2nd year)  
Operational Research (2nd year)  
Decision Analysis (3rd year)  
Mathematical Programming (3rd year)  

*Current periodicals: D, N, S, b*