



## List B

# Combinatorial staff, research students, lecture courses and seminars at departments in Britain

A | B | C | D | E | | G | H | I | | K | L | M | N | O | P |  
Q | R | S | | U | V | W | | | Z

An asterisk denotes a contact name from whom further information can be obtained.

Under most entries the combinatorial journals currently being taken are listed; a key to the titles is as follows:

A	Aequationes Mathematica	N	Discrete Mathematics
B	Algebra Universalis	O	Discussiones Mathematicae: Graph Theory
C	Ars Combinatoria	P	European Journal of Combinatorics
D	Australasian Journal of Combinatorics	Q	Finite Fields and Applications
E	Biometrics	R	Geometriae Dedicata
F	Biometrika	S	Graphs and Combinatorics
G	Bulletin of the Institute of Combinatorics and its Applications	T	IEEE Transaction of Information Theory
H	Combinatorica	U	Journal of Algebraic Combinatorics
I	Combinatorics, Probability and Computing	V	Journal of Combinatorial Design
J	Design, Codes and Cryptography	W	Journal of Combinatorial Mathematics and Combinatorial Computing
K	Discrete and Applied Geometry	X	Journal of Combinatorial Theory

		Series A
L	Discrete and Computational Geometry	Y Journal of Combinatorial Theory Series B
M	Discrete Applied Mathematics	Z Journal of Cryptology
a	Journal of Geometry	f Order
b	Journal of Graph Theory	g Random Structures and Algorithms
c	Journal of Statistical Planning and Inference	h SIAM Journal on discrete Mathematics
d	Linear Algebra and its Applications	i Utilitas Mathematica
e	Networks	

## UNIVERSITY OF ABERDEEN

University of Aberdeen, Edward Wright Building, Dunbar Street, Aberdeen AB9 2TY.  
Tel: 01224 272000 Fax: 01224 487048

### *Department of Mathematical Sciences*

Dr. J. Sheehan\* (graph theory, Ramsey theory)

*Research fellow*

Dr. E.M. Wright

*Research student*

M.L. Annand (Dr Sheehan) (Ramsey theory)

*Lecture courses*

Discrete mathematics (24 lectures, 2nd year u/g, Dr. Dagger)

Graph theory (24 lectures, 4th year u/g, Dr. Sheehan)

*Current periodicals:* J, P, Q, T, W

## UNIVERSITY OF WALES, ABERYSTWYTH

University of Wales, Aberystwyth SY23 3BZ.

Tel: 01970 622753 Fax: 01970 6227777

<http://www.aber.ac.uk/~matwww>

### *Department of Mathematics*

Dr. V.C. Mavron\* (designs)

Dr. T.P. McDonough (designs and permutation groups)

Prof. A.O. Morris (representation theory and algebraic combinatorics)

*Research students*

P. Mwamba, M. Alsolbi.

*Lecture courses*

Graph theory (25 lectures, 3rd year u/g, Dr. McDonough)

Discrete mathematics (25 lectures, 2nd year u/g, Dr. Mavron)

Formal languages, automata and codes (24 lectures, 2nd/3rd year u/g, Dr. McDonough)

*Current periodicals:* P, U, X, h

**UNIVERSITY OF WALES, BANGOR**

School of Informatics, Division of Mathematics, University of Wales, Dean Street, Bangor, Gwynedd LL57 1UT.

Tel: 01248 382686 Fax: 01248 361429

<http://www.sees.bangor.ac.uk/ma/>

***School of Mathematics***

Dr. M.V. Lawson (automata, languages, semigroups)

Dr. N.W. Rymer (graph colourings, stable assignments)

Dr. C.D. Wensley\* (combinatorial group theory, combinatorial species)

*Lecture courses*

Abstract algebra (25 lectures, 2nd year u/g, Dr. Lawson)

Graphical algorithms (20 lectures, 3rd year u/g, Dr. Rymer)

Combinatorial structures (20 lectures, 3rd year u/g, Dr. Rymer)

*Current periodicals:* none

**BIRKBECK COLLEGE**

Birkbeck College, Malet Street, London WC1E 7HX.

***Department of Statistics***

Tel: 0171 631 6308 Fax: 0171 436 3514

Dr. A. Bowler\* (symmetric designs, combinatorial matrices, permutation groups)

*Research students*

P. Grant-Ross (quasigroups)

A. Philips (non-associative finite-dimensional algebras)

*Lecture courses*

Discrete Methods (11 three-hour lectures, 2nd year u/g, Dr. Bowler)

***Department of Computer Science***

Tel: 071 631 6314 Fax: 071 636 4971

Dr. T.I. Fenner (combinatorial algorithms, probabilistic algorithms, random graphs)

Dr. K. Gibson (cryptography, combinatorial algorithms)

Prof. G. Loizou (combinatorial algorithms)

**UNIVERSITY OF BIRMINGHAM**

University of Birmingham, Edgbaston, Birmingham B15 2TT.

Tel: 0121 414 6581 Fax: 0121 414 3389

<http://www.mat.bham.ac.uk>

***School of Mathematics & Statistics***

Dr. P. Butkovic\* (Combinatorial Optimisation)

Prof. R.T. Curtis (Group Theory, Representation Theory)

Dr. A.D. Gardiner (Graph theory)

Prof. R.A. Wilson (Group Theory, Representation Theory)

Dr. John Bray

*Research Students*

Sean Bolt

Louise Murfitt

Beth Holmes

Stephen Stanley

*Lecture courses*

Combinatorial Optimisation (22, 3<sup>rd</sup> year, Dr. Butkovic)

Coding Theory (22, 3<sup>rd</sup> year, Prof. R. Wilson)

Discrete Mathematics (22, 2<sup>nd</sup> year, Dr. Flavell)

Geometry of Groups (22, 4<sup>th</sup> year, Prof. Curtis)

*Current periodicals:* F, N, R, c

**BRUNEL UNIVERSITY**

Brunel University, Kingston Lane, Uxbridge, Middlesex UB8 3PH.

Tel: 01895 274000 Fax: 0189 5203303

<http://www.brunel.ac.uk/depts/ma>

***Department of Mathematical Sciences***

Gutin, Dr. Gregory\* (graph theory, combinatorial optimisation)

Mitra, Prof. Gautam (combinatorial optimisation)

Noble, Dr. Steven (graph theory, combinatorial optimisation)

*Visitors*

Krasikov, Dr. Ilia

*Research Students*

Alexey Zverovich (Dr. Gutin/Prof. Mitra)

*Lecture courses*

Graph theory with Applications (2u/g, Dr. G. Gutin)

Pure and applied Algebra (2 u/g, Dr. W. Foster)

Combinatorial Optimisation (3 u/g)

*Working paper series*

Technical Reports of Department of Maths and Stats (Mrs. P. Kerridge)

*Current Periodicals:* G, b, h

**UNIVERSITY OF CAMBRIDGE**

16 Mill Lane, Cambridge CB2 1SB.  
Tel: 01223 337999 Fax: 01223 337920

***Department of Pure Mathematics and Mathematical Statistics***

Dr. H.T. Croft (Peterhouse)  
Prof. W.T. Gowers\* (Trinity)  
Dr. J. Saxl (Caius)  
Dr. A. Thomason (Clare)

*Fellows*

Dr. B. Bollobás (Trinity)  
Dr. C.N. Jagger (Clare)  
Dr G. Jin (King's)  
Dr. O.M. Riordan (Trinity)  
Dr. R. Steinberg (Judge Institute)

*Research students*

A. Zsak (Dr. Gowers)  
M. Walters (Dr. Gowers)  
O. Pikhurko (Dr. Thomason)  
D.C. Richer (Dr. Thomason)  
J.B.A. Verstraete (Dr. Thomason)

*Lecture courses*

Numbers and Sets (24 lectures, Part IA, Dr. Carne)  
Coding and Cryptography (12 lectures, Part IIA)  
Graph Theory (16 lectures, Part IIA, Dr. Croft)  
Combinatorics (16 lectures, Part IIB, Oliver Riordan)  
Probabilistic Combinatorics (24 lectures, Part III, Dr. Thomason)  
Additive and Combinatorial Number theory (24 lectures, Part III, Dr. Gowers)

*Seminar*

Combinatorics (Dr. Jagger) (Thursdays at 2.15 p.m.)

*Current periodicals:*

**COLCHESTER INSTITUTE**

Sheepen Road, Colchester, Essex CO3 3LL.  
Tel: 01206 518676 Fax: 01206 763041

***Centre of Computing***

R.I. Shreeve\* (combinatorial geometry, 3-topes, face-nets)

*Lecture courses*

Discrete mathematics (30 lectures, 1st year u/g Mr. Shreeve)

**UNIVERSITY OF DUNDEE**

Dundee University, Dundee DD1 4HN.

***Department of Applied Computing***

Tel: 01382 344145 Fax: 01382 345509

<http://www.computing.dundee.ac.uk>

Dr. K.J. Edwards\*(Graph colourings, graph decompositions, complexity) (344463)  
N. Cairnie (Graph colouring, and graph labelling)

***Department of Mathematics***

Tel. 01382 344 471 Fax 01382 345516

<http://www.mcs.dundee.ac.uk:8080/>

Sands, Dr. Arthur (Combinatorial problems on finite Abelian groups; retired)

*Lecture course*

Graph theory (27 lectures, 3rd/4th year u/g)

*Current Periodicals:* T, b, d

**UNIVERSITY OF EAST ANGLIA - NORWICH**

University of East Anglia, Norwich NR4 7TJ.

Tel: 01603 456161 Fax: 01603 259515

<http://www.mth.uea.ac.uk/welcome.html>

***School of Mathematics***

Dr. A.R. Camina (block designs, finite groups) (ext. 592849),

Dr. M. Dzamonja (logic, set theory, infinite combinatorics) (ext. 592981)

Dr. D.M. Evans (permutation groups, automorphism groups of infinite structures) (ext. 592594)

Dr. I.J. Siemons\* (permutation groups, representation theory, topological and homological methods) (ext. 592578)

Prof. A.E. Zalesskii (group theory, ring theory) (ext. 593710)

*Research students*

S. Bell (Dr. Siemons), G. Heide (Prof. Zalesskii), R. Konnerth (Dr. Evans),

C.Kurtz (Dr Siemons/Prof Zalesskii), E.McFarlane(Dr Camina), G.Piper (Dr Dzamonja),

O. Rashwan (Dr. Evans), C. Rudloff (Prof Zalesskii), K.Thompson (Dr Dzamonja)

*Lecture courses*

Discrete Mathematics(2nd year u/g)

Set theory (3rd year u/g in 2000)

Linear algebra and linear groups (3rd year u/g in 2000)

Infinite permutation groups (4th year, p/g, Dr Evans in 2000)

Representation Theory (3rd year u/g, in 2000)

Codes and designs (3rd year u/g in 2001)

Graph theory (3rd year in 2001)

Group theory (3rd year in 2001)

Computability (3rd year in 2001)

Model theory (3rd year in 2001)

*Visitors*

Prof. V. B. Mnukhin (Tagenrog, Russia)

## UNIVERSITY OF EDINBURGH

The King's Buildings, Edinburgh EH9 3JZ  
Tel. 0131 6505129 Fax: 0131 6677209  
<http://www.dcs.ed.ac.uk>

### *Department of Computer science*

Dr. Mark Jerrum\* (combinatorial algorithms, computational complexity, random structures)

#### *Lecture Courses*

Algorithms and Data Structures (3<sup>rd</sup> year u/g)  
Computability and Intractability (3<sup>rd</sup> year u/g, MSc)  
Computational Complexity (4<sup>th</sup> year u/g, MSc, 1<sup>st</sup> year PhD)  
*Current Periodicals:* E, H, M, T, X, Y,

## UNIVERSITY OF ESSEX

University of Essex, Wivenhoe Park, Colchester CO4 3SQ.  
Tel: 01206 873024 Fax: 01206 873598

### *Department of Mathematics*

Dr. P.M. Higgins\* (combinatorics of algebraic semigroup theory)

Tel: 01206 873019 Fax: 01206 873043

Dr. A. Salhi (combinatorial optimisation)

Tel: 01206 873022 Fax: 01206 873043

#### *Research students*

P. Catarino, A. Vernitskii (both Dr. Higgins).

#### *Lecture courses*

One half of the second year algebra course (20 lectures) is combinatorics.  
Combinatorial optimisation (40 lectures, 3<sup>rd</sup> year u/g)  
*Current periodicals:* C, D, K, Y

## UNIVERSITY OF EXETER

University of Exeter, North Park Road, Exeter EX4 4QE.  
Tel: 01392 264 464 Fax: 01392 263997  
<http://www.maths.ex.ac.uk>

### *Department of Mathematics*

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

Dr. P.A. Firby (p/t) (distance and heterogeneity in graphs, applications to mathematical biology)

Dr. A.E. Stratton (finite fields, linear recurrent sequences, coding theory and cryptography)

Prof. P. Vámos (representation of matroids)

#### *Lecture courses*

Discrete Mathematics (30 lectures, 1<sup>st</sup> year u/g, Robin Chapman)

Graph theory (33 lectures, 3rd year u/g, Peter Firby))  
Coding Theory (3<sup>rd</sup> year u/g, Dr. Stratton)  
*Current periodicals:* C, D, W

## UNIVERSITY OF GLAMORGAN

University of Glamorgan, Pontypridd, Mid Glamorgan CF37 1DL.

Tel: 01443 482251 Fax: 01443 482711

<http://www.maths.glam.ac.uk/math/divmc.html>

### *Division of Mathematics and Computing*

Prof. D.H. Smith\* (frequency assignment, network reliability, coding theory)

Dr. S. Perkins (coding theory, synchronization)

#### *Research fellows*

Dr. S.M. Allen (frequency assignment)

Dr. R. Whitaker (frequency assignment, Quasi-orthogonal latin squares) - joint Cardiff/Glamorgan fellow

#### *Lecture courses*

Coding Theory (4th year MMath, Prof Smith)

Information Theory and Data Compression (4th year MMath, Dr. Perkins)

Error correcting Codes (3rd year u/g, Prof. Smith)

Network flows and reliability (3rd year u/g, Prof. Smith)

Abstract Algebra and Combinatorics (2nd year u/g, Dr. Perkins)

*Current periodicals:* N, T, X, Y, e

## GLASGOW CALEDONIAN UNIVERSITY

Glasgow Caledonian University, Cowcaddens Road, Glasgow G4 0BA.

Tel: 0141 331 3609 Fax: 0141 33 3005

### *Department of Mathematics*

Dr. V. Jha\* (finite geometries)

S. Waters (cryptography).

#### *Lecture courses*

Galois fields and Cryptography (Mr. Waters)

*Current periodicals:* none

## UNIVERSITY OF GLASGOW

University of Glasgow, University Gardens, Glasgow G12 8QW.

Tel: 0141 339 8855 Fax: 0141 330 4111

<http://www.maths.gla.ac.uk>

### *Department of Mathematics*

Dr. I. Anderson\* (designs, whist tournaments)

Dr. S.D. Cohen (application of finite fields)

Dr. S.G. Hoggar (error correcting codes, combinatorics of iterated function systems and fractals)

Dr. E. Spence (algebraic graph theory, combinatorial designs)

*Research Students*

J.Ireland (Dr. Hoggar) (M-sequences)

*Lecture courses*

Combinatorial designs (25 lectures, 4th year u/g, Dr. Spence)

Combinatorial mathematics (12 lectures, 3rd year u/g, Dr. Anderson)

Graphs and networks (22 lectures, 2<sup>nd</sup> year u/g, Dr. Anderson)

Groups, symmetry and fractals (22 lectures, 2<sup>nd</sup> year u/g, Dr. Hoggar)

Mathematics of information technology (25 lectures, 4th year u/g, Dr. Hoggar)

Occasional combinatorial seminars

### ***Department of Computing Science***

Dr. R.W. Irving (combinatorial algorithms and complexity)

*Lecture course*

Algorithms (4th year u/g)

*Research Assistant*

D.F. Manlove (optimisation problems)

*Research students*

L. Love (Dr Irving) (string algorithms)

*Lecture courses*

Algorithms (4<sup>th</sup> year u/g, Dr. Irving)

*Current periodicals:* C, E, F, M, N, O, P, Q, T, V, X, Y, b, c, h, i

## **GOLDSMITHS COLLEGE**

Goldsmiths College, University of London, Lewisham Way, London SE14 6NW.

Tel: 0171 919 7850 Fax: 0171 919 7853

### ***Department of Mathematical and Computing Sciences***

Dr. R. M. Hierons (finite state automata, tours of graphs, network optimisation)

Prof. B. Jackson\* (cycles and paths, connectivity, Euler tours, matroid theory)

Dr. I. Pu (combinatorial algorithms, randomized, parallel, probabilistic and average case algorithmics)

C. A. Whitehead (independence and domination in graphs)

*Research students*

B. Cosh (Prof. Jackson) (graph connectivity)

E. Lienart(Prof Jackson) (Graph Colouring)

*Lecture courses*

Discrete Mathematics (1st year u/g, Prof. B. Jackson)

Graph Theory (3<sup>rd</sup> year u/g, Prof. B. Jackson)

Data Structures and algorithms (2<sup>nd</sup> year u/g, Dr. Pu)

*Current Periodicals:* X, Y, b

## **GOVERNMENT COMMUNICATIONS HEADQUARTERS**

Priors Road, Cheltenham GL52 5AJ.  
Tel: 01242 221491 Fax: 01242 226816  
Dr. P.A.K. Covey-Crump (Chief Mathematician)  
Dr. R.G.E. Pinch\*

#### **UNIVERSITY OF GREENWICH**

University of Greenwich, London, SE18 6PF  
Tel: 0181 316 8000 Fax: 0181 855 4033

##### ***School of Maths, Statistics and Computing***

Prof. M.G.Everett (Graph Theory)  
Dr. V.A. Strusevich (Scheduling Theory)  
*Research fellow*  
Mr. P.A. Sinclair  
*Lecture Course*  
Graph Theory (3<sup>rd</sup> yr u/g, Prof. Everett)  
*Current Periodicals: T*

#### **HERIOT-WATT UNIVERSITY**

Heriot-Watt University, Riccarton, Edinburgh EH14 4AS.  
Tel: 0131451 3221 Fax: 0131 451 3249  
<http://www.ma.hw.ac.uk>

##### ***Department of Mathematics***

Dr. A.R. Prince\* (finite geometries, finite group theory)  
*Lecture course*  
Discrete mathematics (45 lectures, 3rd year honours degree, Dr. Prince)  
*Current periodicals: E, F, I, c, g, h*

#### **HEWLETT-PACKARD LABORATORIES**

Hewlett-Packard Laboratories, Filton Road, Stoke Gifford, Bristol BS34 8QZ.  
Tel: 0117 979 9910 Fax: 0117 312 9870  
<http://hplbwww.hpl.hp.com/mcs/>

Dr. S. Crouch (cryptography, coding theory, finite algebraic geometry)  
Dr. S.A. Hudleston (cryptography, properties of binary functions)  
Dr. J. Jedwab\* (design theory, coding, cryptography)  
Dr K.G. Paterson (cryptography and coding theory)  
*Current periodicals: T*

#### **UNIVERSITY OF HULL**

University of Hull, Cottingham Road, Hull HU6 7RX.  
Tel: 01482 465885 Fax: 01482 466218  
<http://www.hull.ac.uk/math/>

***Department of Mathematics***

Prof. R. Shaw\* (Emeritus) (finite geometry)

Dr. N.A. Gordon (465870) (finite geometry, computer algebra)

*Current periodicals: J, P, R, T*

**IMPERIAL COLLEGE**

Imperial College, Huxley Building, 180 Queensgate, London SW7 2BZ.

Tel: 0171 589 5111 Fax: 0171 584 7596

*Department of Mathematics*

Prof. G.D. James, Prof. M. Liebeck, Dr. O. Pretzel\*, Dr. L. White

**UNIVERSITY OF KEELE**

University of Keele, Keele, Staffordshire ST5 5BG.

Tel: 01782 621111 Fax: 01782 584268

<http://www.keele.ac.uk/depts/ma/math.html>

***Department of Mathematics***

Dr. D. Bedford\* (583468) (latin squares; designs)

K. Walker (583268) (graphs) %

*Research student %*

R. Whitaker (Dr. Bedford) (Quasi-orthogonal latin squares)

*Lecture courses*

Graph theory (36 lectures, 3rd year u/g, Mr. Walker)

Discrete mathematics (36 lectures, 3rd year u/g, Dr. Bedford)

*Current periodicals: H, S, X, Y, h*

**UNIVERSITY OF KENT AT CANTERBURY**

Cornwallis Building, The University, Canterbury, Kent CT2 7NF.

Tel: 01227 764000 Fax: 01227 827932

<http://www.ukc.ac.uk/IMS/>

***Institute of Mathematics and Statistics***

G.M. Clarke (827901) (non-orthogonal Graeco-Latin designs)

Dr. R. Hughes Jones (823799) (enumerating and constructing polyhedral surfaces)

Prof. P Fleischmann (823654) (algebraic combinatorics, root systems, Mobius function)

Prof. S.C. Pearce (827263) (block designs; row and column designs)

Prof. D.A. Preece\* (827901) (Graeco-Latin designs, nested BIBDs, single-change covering designs, neighbour designs)

D.H. Rees (01243 375250) (non-orthogonal Graeco-Latin designs, nested BIBDs, neighbour designs)

Dr. B.J. Vowden (823649) (Graeco-Latin designs)

Dr. C.F. Woodcock (823803) (orthogonal Latin squares)

***Canterbury Business School***

The University, Canterbury, Kent, CT2 7PE

Tel: 01227 784564 Fax: 01227 761187

<http://www.ukc.ac.uk/CBS/>

Dr. J.D. Lamb (824046) (graphs, matroids, algorithms and applications)

*Lecture courses*

Discrete mathematics (30 lectures, 3<sup>rd</sup> year u/g, Dr. Woodcock)

Computational algebra (30 lectures, 3<sup>rd</sup> year u/g, Prof. Fleischmann)

*Current periodicals:* E, F, T

**KING'S COLLEGE, LONDON**

King's College, Strand, London WC2R 2LS.

Tel: 0171 836 5454 Fax: 0171 836 1799

***Department of Mathematics***

Dr. J. Caunter\* (reconstruction theory, graph colourings, four colour problem, Hamiltonian problem)

*Lecture course*

Mathematical theory of games (3<sup>rd</sup> year u/g, Dr. Caunter)

*Current periodicals:* N

**UNIVERSITY OF LANCASTER**

University of Lancaster, Lancaster LA1 4YL.

Tel: 01524 593960 Fax: 01524 592681

<http://www.maths.lancs.ac.uk>

*Department of Mathematics and Statistics*

Dr. A.G. Chetwynd\* (combinatorial applications in statistics)

*Current periodicals:* E, F, T, Y, b, e

**UNIVERSITY OF LEEDS**

University of Leeds, Leeds LS2 9JT.

Tel: 0113 2335140 Fax: 0113 2335145

<http://amsta.leeds.ac.uk/pure/index.html>

***School of Mathematics***

Prof. S.B. Cooper (graph theory, Ramsey theory, finite set systems),

Dr. H.D. Macpherson\* (permutation groups and related combinatorics),

Prof. J. K. Truss (permutation groups, automorphisms of infinite Steiner systems)

*Research Students*

G. Campero-Arena (Prof. Truss, countable homogeneous ordered structures)

*Lecture courses*

Introduction to Discrete Maths (22 lectures, 2<sup>nd</sup> year u/g, Prof. Cooper)

Graph theory (22 lectures, 3<sup>rd</sup> year u/g, Dr. Cooper)

Combinatorics (22 lectures, 3rd year u/g, Prof. J.C.McConnell)

Coding theory (22 lectures, 3rd year u/g, Prof. Robson)

*Working Paper series*

<http://www.amsta.leeds.ac.uk/pure/preprints/leedsprep.html>

***School of Computer Studies***

University of Leeds, Leeds LS6 2HN

Tel. 0113 233 5430 Fax 0113 233 5468

<http://www.scs.leeds.ac.uk>

Dyer, Prof. Martin (algorithms and complexity)

*Other researchers*

Greenhill, Dr. Catherine (Prof. Dyer, algorithms and complexity)

*Lecture course*

Introduction to Algorithms

Theory of computation

Computational graph theory and complexity

Modern issues in algorithmic design

*Research Report Series*

<http://www.scs.leeds.ac.uk/services/reports/reports.html>

*Current periodicals: P, X, Y*

**UNIVERSITY OF LEICESTER**

Leicester University, University Road, Leicester LE1 7RH.

***Department of Mathematics and Computer Science***

Tel: 0116 2523887 Fax: 0116 2523604

<http://www.mcs.le.ac.uk>

Dr. R.J. Marsh (2525107) (quantum groups, Lie algebras, Weyl groups and related piecewise-linear combinatorics)

<http://www.mcs.le.ac.uk/~rmarsh>

Dr. J. Nurmonen (2523883) (finite model theory)

<http://www.mcs.le.ac.uk/~jnurmonen/jn.html>

Prof. I.A. Stewart (2525237) (finite model theory; complexity theory; pure, applied, and algorithmic graph theory)

<http://www.mcs.le.ac.uk/~istewart>

Prof. R.M. Thomas\* (2523411) (combinatorial group and semigroup theory, automata theory)

<http://www.mcs.le.ac.uk/~rthomas>

Dr. W.W. Wheeler (2525106) (combinatorial group theory)

<http://www.mcs.le.ac.uk/~wwheeler>

*Other researcher based in the Department*

Prof. R.O. Davies (retired) (2705002)

### *Research students*

R. Gault (Prof. Stewart) (finite model theory)  
D.W. Parkes (Prof. Thomas) (groups and automata)  
M. Hoffman (Prof. Thomas) (semigroups and automata)  
S.R. Larkin (Prof. Thomas) (group theory and computer science)

### *Lecture courses*

Logic and Discrete Structures (36 lectures, 1<sup>st</sup> year u/g, Prof. Thomas)  
Algorithms and Data Structures (36 lectures, 1<sup>st</sup> year u/g, Dr. Measor and Dr. Ghani)  
Pure Mathematics at Work (18 lectures, 1<sup>st</sup> year u/g, Dr. Ault)  
Automata, Languages and Computation (36 lectures, 2<sup>nd</sup> year u/g, Prof. Thomas)  
Design and Analysis of Algorithms (36 lectures, 2<sup>nd</sup> year u/g, Prof. Stewart)  
Optimisation (18 lectures, 2<sup>nd</sup> year u/g, Dr. Phillips)  
Coding Theory (36 lectures, 3<sup>rd</sup> year u/g, Dr. Ault)  
Parallel and Distributed Computing (36 lectures, 3<sup>rd</sup> year u/g, Prof. Thomas)

### *Seminars*

The department holds regular seminars (given by internal and external speakers) in Mathematics and Computer Science, including several on combinatorics; details may be found on the web; see <http://www.mcs.le.ac.uk/seminars/frame-Seminars.html>

### *Technical Reports*

The department has a technical report series, copies of which may be obtained on request. Details are available on the web at:

<http://www.mcs.le.ac.uk/research/frame-Research.html>

### ***Department of Psychology***

Tel: 0116 2522170

<http://www.mcs.le.ac.uk/psychology/>

Dr. R.T. Gillett (2522171)

*Current periodicals:* E, F, M, N, P, Q, T, X, Y, b, h

## **LONDON SCHOOL OF ECONOMICS**

London School of Economics, Houghton Street, London WC2A 2AE.

Departmental Office

Tel: 0171 955 7732 - 0171 955 6373

Fax: 0171 955 6877

<http://www.maths.lse.ac.uk>

### ***Department of Mathematics, and Centre for Discrete and Applicable Mathematics***

Prof. Steve Alpern (ergodic theory, game theory, search theory)

Dr. Martin Anthony\* (computational learning theory, neural networks, theory of computing)

Prof. Norman Biggs (algebraic graph theory, history of combinatorics, applications in physics and

finance)

Prof. Graham Brightwell (partially ordered sets, random structures)

Dr. Jan van den Heuvel (graph theory, discrete mathematics, applications)

Dr. Bernhard von Stengel (Game theory and Complexity)

*Research students*

W.S. Chan (Dr. Anthony) (Computational learning theory and combinatorics)

Snezana Pejic (Dr. van den Heuvel) (frequency assignment)

Phillipp Reinfeld (Prof. Biggs) (algebraic graph theory)

Ben Veal (Dr. Anthony)

*CDAM Research Reports*

<http://www.cdam.lse.ac.uk/Reports/>

Details and reports can be requested from Jackie Everid, (info@maths.lse.ac.uk, 0171 955 6373)

### ***Department of Operational Research***

Tel: 0171 955 7653

Dr. Gautam Appa (orthogonal latin squares, mixed integer programming, robust regression)

Dr. Hugues Marchand

Dr. S. Powell (mathematical programming and combinatorial optimization, operational research)

*Lecture courses*

Discrete mathematics (20 lectures, 3rd year u/g, Dr. van den Heuvel)

Theory of graphs (20 lectures, 3rd year u/g and M.Sc., Prof. Biggs)

Combinatorial optimization (20 lectures, 3rd year u/g and M.Sc., Dr. Appa)

Complexity theory (20 lectures, 3rd year u/g and M.Sc., Dr. von Stengel)

Computational learning theory (20 lectures, M.Sc., Dr. Anthony)

*Seminar*

Discrete and applicable mathematics, organized by Dr. von Stengel

## **UNIVERSITY OF MANCHESTER**

University of Manchester, Oxford Road, Manchester M13 9PL.

Tel: 0161 275 5800 Fax: 0161 275 5819

<http://www.ma.man.ac.uk>

### ***Department of Mathematics***

Prof. N. Ray\* (umbral calculus, chromatic polynomials, posets of partitions and permutations, permutation matrices, Hopf algebras and quantum structures, Toric varieties and polytopes)

<http://www.ma.man.ac.uk/~nige/>

Dr. R. Sandling (block designs)

Dr. G. Walker (modular representation theory, symmetric functions, Schur functions, partitions, Young tableaux, pictures)

*Research students*

Andrew Maynard (Ray, M., combinatorial coalgebra and formal power series)

*Lecture courses*

Trees and networks (1st year u/g, Prof. Ray)

Coding theory (3rd year u/g, Dr. McCrudden)

Combinatorics (4th year, u/g, Prof. Ray)  
Discrete mathematics (2nd year u/g, Dr. Sandling)  
Discrete optimization (3rd year u/g, Dr. Sandling)

*Seminar*

Occasional joint combinatorics seminars, in conjunction with Salford University and UMIST (details from N. Ray)

*Current periodicals:* E, F, P, R, S, U, X, Y

**UNIVERSITY OF MANCHESTER INSTITUTE OF SCIENCE AND TECHNOLOGY**

UMIST, P.O. Box 88, Manchester M60 1QD.

Tel: 0161 200 3641 Fax: 0161 200 3669

***Department of Mathematics***

Mr. J. Gilder\*, Prof. R.M. Bryant, Dr. P.J. Rowley, Dr. P.J. Laycock

Dr. A.V. Borovik (matroids and generalisations, Coxeter matroids, Coxeter groups)

*Seminar*

Occasional joint combinatorics seminar in conjunction with Salford University and Manchester University; details from N. Ray (Manchester)

*Lecture course*

Combinatorics (24 lectures, 3rd year u/g, J. Gilder)

Coding theory (24 lectures, 3rd year u/g, J. Gilder)

Discrete mathematics (24 lectures, 2nd year, u/g, Mr. Gilder)

*current periodicals:* C, D, K, L, N, U

**UNIVERSITY OF MIDDLESEX**

Middlesex University Business School, The Burroughs, London, NW4 4BT

Tel: 0181 362 5581

***Mathematics and Statistics Group***

Dr Thomas D Bending\*, (Bent functions; finite geometrics; lotteries).

David F Jarrett, (Graph Theory applied to traffic modelling)

Dr Patricia Wackrill (Graph theory, traffic modelling, Celtic knotwork)

Prof. Chris Wright (Graph theory, routing on networks)

*Lecture Courses*

Discrete Maths (2<sup>nd</sup> yr u/g)

Further Maths (3<sup>rd</sup> yr u/g)

*Current Periodicals:* F, T, b

**UNIVERSITY OF NEWCASTLE UPON TYNE**

Newcastle University, Newcastle upon Tyne NE1 7RU.0

Tel: 0191 222 6000 Fax: 0191 222 8020

<http://www.ncl.ac.uk/mathematics/>

***Department of Mathematics***

Prof. R.H. Dye (geometry of the classical groups, spreads, ovoids, configurations and their groups)

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, Buekenhout geometries)

Dr. F.A. Leinen (locally finite groups, infinite permutation groups, finitary linear groups and Lie algebras, existentially closed groups, group theoretic constructions)

Dr. S. Rees (algorithms in group theory and geometry, automatic groups and related classes of groups, connections between group theory and formal language theory)

*Research students*

S. Fulthorp (Dr. Duncan)

A. Harkins (Dr. Rees)

O. Payne (Dr. Rees)

K. Reynolds (Dr. Duncan)

*Lecture courses*

Graph Theory (24 lectures, 2nd/3rd/4th year u/g, alternate years, Dr. Duncan)

Coding Theory (24 lectures, 2nd/3rd/4th year u/g, alternate years, Dr. Ford)

Geometries and Designs (24 lectures, 3rd/4th year u/g, alternate years)

*Current periodicals:* E, F, P, R, T, U X, Y, c, d

**UNIVERSITY OF NORTH LONDON**

University of North London, 166-220 Holloway Road, London N7 8DB.

Tel: 0171 607 2789

***School of Communications Technology and Mathematical Sciences***

Dr. C. Cooper\*

***STORM Research Centre***

Prof. I. Kovalenko

*Lecture courses*

Discrete mathematics (3rd year u/g)

Graph theory (2nd year u/g)

Coding theory (3rd year u/g)

*Current periodicals:* C, D

**UNIVERSITY OF NOTTINGHAM**

University of Nottingham, University Park, Nottingham NG7 2RD.

Tel: 0115 951 4949 Fax 0115 951 4951

<http://www.maths.nottingham.ac.uk>

***School of Mathematical Sciences***

Dr. D.R. Woodall\* (951 4959) (graph colourings, chromatic polynomials, electoral systems)

*Research students*

A.M. Robertshaw (Dr. Woodall)

*Lecture courses*

Introductory Graph Theory (30 lectures, 3<sup>rd</sup> yr u/g, Dr. Anderson)

Graph theory (30 lectures, 3<sup>rd</sup> and 4<sup>th</sup> year u/g alt. years, Dr. Woodall)

Combinatorics (30 lectures, 3<sup>rd</sup> and 4<sup>th</sup> year u/g alt. years, Dr. Woodall)

Coding and cryptography (30 lectures, 3<sup>rd</sup> year u/g, Dr. Woodall)

*Current periodicals:* none

**THE OPEN UNIVERSITY**

The Open University, Walton Hall, Milton Keynes MK7 6AA.

Tel: 01908 653479 Fax: 01908 653744

<http://mcs.open.ac.uk/mcsexternal/>

***Faculty of Mathematics and Computing***

Dr. F.C. Holroyd (652327) (fractional and circular graph colourings; graceful and related tree labellings)

Dr. B.M. Maenhaut (659274) (combinatorial design theory, graph theory)

R. Nelson (retired) (Ramsey theory)

Dr. K.A.S. Quinn\* (653909) (designs and their applications)

Dr. C.A. Rowley (0171 794 0575) (design of experiments, problems in document science)

Dr. B.S. Webb (653242, 01752 896138) (automorphisms of designs and permutation representation)

Dr. R.J. Wilson (652337) (edge-colourings of graphs, history of combinatorics, spectral graph theory)

*Research fellows*

Prof. M.J. Grannell (sec. 653479) (combinatorial design theory, combinatorial computing, Steiner systems)

Prof. T.S. Griggs (654991) (combinatorial design theory, combinatorial computing, Steiner systems)

*Research students*

G.K. Bennett (part-time, Prof. Grannell, Prof. Griggs and Dr. Webb) (topological design theory)

P. Garcia (Dr. Wilson) (history of combinatorics)

T. Johnson (part-time, Dr. Holroyd) (graph multi-colourings, colourings with structured colour set)

G. J. Lovegrove (part-time, Prof. Grannell, Prof. Griggs and Dr. Quinn) (automorphisms of designs)

J. Williams (part-time, Dr. Wilson) (total colourings)

I. Watts (part-time, Dr. Holroyd) (graph homomorphisms, generalisations of graph colourings)

***Faculty of Technology***

Tel. 01908 652944 Fax 01908 654052

<http://www-tec.open.ac.uk>

Dr. A.K. Dolan (networks)

Dr. J.H. Johnson (networks, complex systems, computer vision, transportation systems)

Dr. J. Rooney (robotics, kinematic geometry, Clifford algebras, differential geometry, screw theory, tensegrity structures)

*Research Student*

J.D. Hobbs (part-time, Dr. Rooney) (mechanical space systems, reconfigurable structures)

*Course*

MT365: Graphs, networks and design (half-credit, third level)

*Current periodicals:* N, P, X, Y, b

**UNIVERSITY OF OXFORD**

The Mathematical Institute, 24-29 St. Giles, Oxford OX1 3LB.

Tel: 01865 273525 Fax: 01865 273583

***Faculty of Mathematical Sciences***

Dr. M.B. Powell (St. Peter's) (groups and codes)

Prof. D.J.A. Welsh\* (Merton) (applied probability, complexity)

Dr. R. Gower

Dr. R. Leese (St. Catherine's) (channel assignment problems)

***Department of Statistics***

1 South Parks Road, Oxford OX1 3TG.

Tel: 01865 272860 Fax: 01865 272595

Dr. C.J.H. McDiarmid (Corpus Christi) (probability and algorithms, probabilistic methods in combinatorics, colouring problems)

*Research students*

N. Bone (Merton, Prof. Welsh and Dr. Sanders)

S. Gerke (Corpus, Dr McDiarmid)

M. Luczak (St. Catherine's, Prof. Welsh)

C. Merino-Lopez (Somerville, Prof. Welsh)

M. Mosca (Wolfson, Prof. Welsh and Dr. Ekert)

U. Ruhrmair (Brasenose, Prof. Welsh)

I. Sarmiento (Merton, Prof. Welsh)

M. Shepherd (Merton, Dr. Leese)

*Lecture courses*

Combinatorial optimisation (12 lectures, 2nd year u/g, Dr. McDiarmid)

Communication theory (16 lectures, 3rd year u/g, Dr. McDiarmid and Dr. Powell)

Complexity and cryptography (16 lectures, 3rd year u/g, Prof. Welsh)

Randomised algorithms (16 lectures, 1st year p/g, Prof. Welsh)

*Seminar*

Combinatorial theory (Tuesdays at 3 p.m.)

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

**UNIVERSITY OF PORTSMOUTH**

Mercantile House, Hampshire Terrace, Portsmouth, Hants PO1 2EG.

Tel: 023 92 843016 Fax: 023 92 843106

<http://www.sms.port.ac.uk/dmshome.html>

***School of Computer Science and Mathematics,  
Division of Mathematics & Statistics***

Dr. C.W. Evans\* (843119) (graph theory, combinatorial theory, coding theory and designs)

Dr. A. Makroglou

Mr. T.S. Manns

*Lecture courses*

Graph and networks (24 lectures, final year u/g, Dr. Makroglou)

Discrete Mathematics (24 lectures, electrical engineering stage 2, Mr T Manns)

Projects (final year u/g)

Occasional seminars

*Current periodicals: X, Y, b*

**QUEEN MARY AND WESTFIELD COLLEGE**

Queen Mary and Westfield College, Mile End Road, London E1 4NS.

Tel: 0171 975 5440 Fax: 0181 980 9587

***School of Mathematical Sciences (Mathematics Research Center)***

Prof. D.K. Arrowsmith (graph colourings, percolation theory, interaction models and knot invariants)

Prof. R.A. Bailey (design of experiments, latin squares and their generalisations, designs for complicated block structures, association schemes, partition species)

Prof. P.J. Cameron\* (groups and their operants, graphs, codes, designs, models, orbits and enumeration)

Dr. J.W.B. Hughes (representations of Lie superalgebras)

Dr. Thomas Müller (from January 1999; group theory, combinatorics, analysis)

Dr. L.H. Soicher (5463) (computational group theory, graph theory, finite geometry, design theory)

*Researchers*

Dr. Keldon Drudge (Research Fellow, finite geometry)

Prof. Dan Hughes (Emeritus Professor: finite geometry)

Dr. Cecile Huybrechts (Research fellow; finite geometry)

Prof. Ian Macdonald (Emeritus professor; symmetric functions, representation theory)

Prof. Harriet Pollatsek ( visitor 1998-99; finite groups and geometries, difference sets)

*Research students*

Alexis Andreou (Prof. Cameron, codes and designs)

Nicholas Cavenagh (Prof. Cameron, designs, graph decompositions, permutation groups)

Julian D. Gilbey (Prof. Cameron, symmetric functions, bijective proofs)

Michael Giudici ( Prof. Cameron, permutation groups, graphs. Codes)

Colin Lewis (Prof. Bailey, statistical design)

Costas Papadopoulos (Prof. Bailey/Prof. Cameron; trellis decoding)

Chris Pinnoch (Prof. Wehrfritz; finitary groups, solubility and nilpotency, representation theory)

Colva Roney-Dougal (Prof. Cameron; permutation groups)

Carrie Rutherford (Prof. Cameron; matroids, Tutte polynomial, codes)

Fuad Shareef (Prof. Cameron; codes and designs)

Sam Tarzi (Prof. Cameron; model theory)

*Lecture courses*

Optimization techniques in operational research (36 lectures, 2nd year u/g, Dr. Radcliffe, Dr. Wolf)

Discrete mathematics (36 lectures, 1st year u/g, Prof. Donkin)

Algorithmic Mathematics (36 lectures, 2nd year u/g., Dr Soicher)

Graph Theory and Applications (36 lectures, 2nd/3rd year u/g., Prof. Hodges)

Coding Theory (36 lectures, 3rd year u/g., Dr Radcliffe)

Design of Experiments (36 lectures, 3rd year u/g., Dr. Bogacka)

Sets, logic and categories (24 lectures, 4th year, M.Sc., Prof. Cameron)

*Seminars*

Combinatorics study group (Prof. Cameron, Thursdays 2:30pm)

Design of Experiments (Prof. Bailey, Thursday 4:30pm)

Pure Mathematics (Prof. Donkin, Monday 4:30pm)

*Current periodicals:* B, E, F, H, P, R, T, U, X, Y, g

**RACAL RESEARCH LIMITED**

Racal Research Ltd., Worton Drive, Worton Grange Industrial Estate, Reading, Berks GR2 0SB.

Tel: 0118 9868601 Fax: 0118 9238399

Dr. R.B.D. Horne\*

Dr. A. Waller

*Current periodicals:* F, N

**UNIVERSITY OF READING**

Department of Mathematics, University of Reading, Whiteknights, P.O. Box 220 Reading, Berks RG6 6AX.

Tel: 0118 987 5123 Fax: 0118 931 3423 e-mail: smsmaths@rdg.susssysl.ac.uk

***Department of Mathematics***

Dr. J.K. Dugdale (graph theory) Tel: 0118 9875123, ext. 4012

Prof. A.J.W. Hilton\* (graph theory, design theory, finite set systems) Tel: 0118 931 8989

Dr. W.R. Johnstone (graph theory) Tel: 0118 9875123, ext. 4013

Prof. C.St.J.A. Nash-Williams (graph theory) Tel: 0118 931 8992

Dr. D.S.G. Stirling (graph theory)

*Honorary fellow*

Dr. D.C. Daykin

*Research Student*

M. Johnson

*Lecture courses*

Combinatorics (20 lectures, 1st year u/g, Dr Dugdale)

Combinatorics (40 lectures, 3rd year u/g, Dr. Dugdale, Prof. Hilton)

Graph theory (40 lectures, 3rd year u/g, Dr. Dugdale, Prof. Hilton)

Combinatorics (20 lectures, 3rd year u/g, Prof. Hilton)

*Research seminar*

Combinatorics seminar (Mondays at 3 p.m.)

*One-Day Combinatorics Colloquium:* 17<sup>th</sup> May 2000

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

## **ROTHAMSTED EXPERIMENTAL STATION**

IACR - Rothamsted, Harpenden, Herts AL5 5RJ

Tel: 01582 763133 Fax: 01582 4671166

<http://www.res.bbsrc.ac.uk/stats/>

### ***Statistics Department***

Prof. R.W. Payne\*, (Statistical computing, design and analysis of experiments, identification keys and diagnostic tables, statistical modeling)

Welham, Sue (REML estimation of various components, neighbour effects, design of laboratory experiments, statistical modeling)

*Current periodicals:* E, F

## **ROYAL HOLLOWAY**

Royal Holloway, Egham Hill, Egham, Surrey TW20 0EX.

### ***Department of Mathematics***

Tel: 01784 443093 Fax: 01784 430766

Dr. M.V.D. Burmester ( information security; cryptography, complexity)

Dr. R.M. Damerell (algebraic combinatorics, computing applications)

Prof. J.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)

Dr. A. Fuchsberger (cryptography and information security)

Dr. K.M. Martin (cryptography and information security)

Prof. C. Mitchell (cryptography and information security)

Dr. S.P. Murphy (spatial probability, cryptography)

Dr. C.W. Norman (algebraic topics)

Prof. F.C. Piper (algebraic combinatorics: finite geometry, theory of designs, coding theory, cryptography)

Prof. P.R. Wild\* (algebraic combinatorics: designs and difference sets, statistical applications, applications of discrete mathematics to data communications, coding theory, cryptography)

### ***Visiting Professors***

Prof. H.J. Beker (Zergo Ltd), Prof. D.W. Davies,

Prof. Y. Desmedt, Prof. M. Walker (Vodafone Ltd),

### ***Research Staff***

Dr. S. Blackburn

Dr. S. Ng

### ***Research students***

G. Blacklaw, M. Charalambous, A. Dent, E. Fazey, S. M. Kim, F. Mirza, K. Rantos, P. Rowe, T. Stinchcombe, R. Stockwell, C. Swart, B. Wallace, Y. Yemane, C. Y. Yeun

### ***Lecture courses***

Discrete mathematics (33 lectures, 2nd year u/g, Dr. Cohn)

Cipher systems (33 lectures, 3rd year u/g, Prof. Wild)  
Combinatorics (33 lectures, 3rd year u/g, Dr. Yates)  
Error correcting codes (33 lectures, 3rd year u/g, Dr. Cohn)  
Game theory (33 lectures, 3rd year u/g, Dr. Burmester)  
Combinatorial optimisation (33 lectures, 3rd year u/g, Dr. Yates)  
Theory of graphs (33 lectures, 3rd year u/g, Dr. Damerell)  
Theory of error correcting codes (33 lectures, p/g, Dr. Burmester)  
Cipher systems (33 lectures, p/g, Prof. Wild)  
Combinatorics (33 lectures, p/g, Dr. Damerell)  
Graph theory (33 lectures, p/g, Dr. Damerell)  
Design theory (33 lectures, p/g, Prof. Wild)  
Discrete Optimisation (33 lectures, p/g, Dr. Yates)

The Department of Mathematics runs taught M.Sc. programmes in Information Security, Discrete Mathematics with Computing Applications and Dependable Computer Systems jointly with the Department of Computer Science.

*Seminars*

Discrete mathematics and its applications (organizer: Dr. Blackburn) (Tuesdays at 4.00 p.m. in room 219)

***Department of Computer Science***

Tel: 01784 443421 Fax: 01784 443420

Prof. J.S. Shawe-Taylor\*, Dr. P.G. Jeavons

*Visiting Professor*

D.W. Davies CBE FRS

*Lecture courses*

Theory of computing (33 lectures, 1st year u/g, Dr. Jeavons)

Discrete mathematics and probability (33 lectures, 1st year u/g, Dr. Murphy)

Design and analysis of algorithms (33 lectures, 2nd year u/g, Dr. Gollman)

Formal languages (33 lectures, 2nd year u/g, Dr. Gollman)

Signals, codes and ciphers (33 lectures, 3rd year u/g, Dr. Price, Prof. Mitchell and Prof. Shawe-Taylor)

Neural networks (33 lectures, 3rd year u/g, Prof. Shawe-Taylor)

Connection science and machine learning (organizer: Prof. Shawe-Taylor)

*Current periodicals:* E, F, H, J, M, N, P, S, T, X, b, h

**UNIVERSITY OF ST. ANDREWS**

The Mathematical Institute, North Haugh, St. Andrews, Fife KY16 9SS.

Tel: 01334 463745 Fax: 01334 463748

<http://www.dcs.st-and.ac.uk>

***School of Mathematical and Computational Sciences***

Prof. M.D. Atkinson (algorithms, strings, permutations, orderings, complexity)

Dr. C.M. Campbell\* (combinatorial group theory, combinatorics of semigroup presentations)

R.L. Constable (combinatorics)  
Prof. K.J. Falconer (combinatorial geometry)  
Prof. A.W. Kemp (combinatorial applications in statistics)  
Dr. C.D. Kemp (combinatorial applications in statistics)  
Dr. S.A. Linton (combinatorial group theory, computational graph theory)  
Prof. U.H.M. Martin (algorithms on strings, orderings, termination problems)  
Dr. J.H. McCabe (graph theory, number theory)  
Dr. J.J. O'Connor (combinatorial group theory)  
Dr. L. Olsen (analysis and combinatorics)  
Prof. E.F. Robertson (combinatorial group theory, combinatorics of semigroup presentations)  
Dr. N. Ruskuc (combinatorial semigroup theory)  
Dr. B.O. Stratmann (combinatorial group theory, Kleinian groups)

*Lecture courses*

Computational mathematics (56 lectures, 2nd year u/g)  
Finite mathematics (24 lectures, 3rd/4th year u/g, alternate years)  
Graphs (24 lectures, 3rd/4th year u/g, alternate years)  
Various courses involving algorithms and complexity at 3<sup>rd</sup>/4<sup>th</sup> year u/g..  
*Current periodicals:* A, B, E, F, U, X, f

**ST. MARY'S UNIVERSITY COLLEGE**

St. Mary's University College, Strawberry Hill, Twickenham, Middlesex TW1 4SX.  
Tel: 0181 240 4000 Fax: 0181 240 4255

***Department of Mathematics***

Dr. E.A. Evans\* (information theory)  
G. Hunter (applications of graph theory to statistical mechanics, edge disjoint partitions)

*Lecture courses*

Discrete mathematics (50 lectures, 1st year u/g)  
Operational research (50 lectures, 3rd year u/g)  
Graph theory (50 lectures, 3rd year u/g)

**UNIVERSITY OF SALFORD**

University of Salford, Salford M5 4WT.  
Tel: 0161 295 3999 Fax: 0161 295 5559

***Mathematics Section, School of Sciences***

Prof. R. Hill\* (coding theory, finite geometries)

*Visiting Professor*

T. Maruta (September 2000 - August 2001)

*Research students*

Jones, C.M. (Prof. Hill, coding theory)  
Love, C.P. (Dr. Hill, coding theory)

*Lecture courses*

Discrete mathematics (48 lectures, 2nd year u/g, Prof. Hill)  
Coding theory (48 lectures, 3rd year u/g, Prof. Hill)

*Current periodicals:* J, P, T, h

## **SOUTH BANK UNIVERSITY**

S.C.I.S.M., South Bank University, 103 Borough Road, London SE1 0AA.

Tel: 0171 815 7400 Fax: 0171 815 7499

<http://www.scism.sbu.ac.uk>

### ***School of Computing, Information Systems and Mathematics***

Jennings, Dr. Sylvia\* (coding theory, text compression)

King Sing, Dr. Roland H.T. (combinatorial models of fault based program testing)

Whitty, Prof. Robin (Graph theoretical modeling of human memory)

*Visiting Professor:*

Singmaster, David (recreational mathematics)

*Lecture courses*

Discrete mathematics occurs in the first year of all the computing courses (S. Jennings, R. Whitty, D. Singmaster).

Option in Applied Cryptography occurs in the final year (S. Jennings)

*Working Paper Series*

[http://www.scism.sbu.ac.uk/publications/tech\\_rep/index.html](http://www.scism.sbu.ac.uk/publications/tech_rep/index.html)

*Current periodicals:* T

## **UNIVERSITY OF SOUTHAMPTON**

University of Southampton, Southampton SO17 1BJ.

Tel: 01703 593612 (NB changing to 023 8059 3612 from June 1999)

Fax: 01703 595147 (NB changing to 023 8059 3612 from June 1999)

<http://morglay.maths.soton.ac.uk>

### ***Faculty of Mathematical Studies***

Dr. G.A. Jones (3654) (permutation groups, connections between groups and graphs)

Dr. E.K. Lloyd\* (5127) (combinatorics and graph theory including applications and history)

Prof. R.C. King (3700) (representations theory of Lie algebra and superalgebras, applications in Physics)

Dr. C.N. Potts (3651) (combinatorics and graph theory)

Dr. D. Singerman (3671) (discontinuous groups with applications to Riemann surfaces and the theory of maps)

Prof. H.P. Williams (3794) (integer programming)

*Research students*

D. Maureemootoo (Dr. Jones, part-time)

*Lecture courses*

Combinatorics and Graph theory (13 lectures, 1st year u/g, Dr. Lloyd)

Theory of numbers (36 lectures, 3<sup>rd</sup>/4<sup>th</sup> year u/g, Prof. Vic Snaith)

Networks and combinatorial optimisation (20 lectures, M.Sc. in Operational Research, Prof. Williams)

Scheduling (10 lectures, M.Sc. in Operational Research, Dr. Potts)

Algorithms (36 lectures, 2nd year, u/g, Dr. Glass)

Information and coding Theory (36 lectures, 3rd year u/g, Dr. Jones)  
Algorithms, machines and languages (36 lectures, 3<sup>rd</sup>/4<sup>th</sup> year u/g, Dr. Jones)  
Finite Mathematics (36 lectures, 3<sup>rd</sup>/4<sup>th</sup> year u/g, Dr. Jim Renshaw)

***Department of Management***

01703 593966 (NB changing to 02380 593966 from June 1999)  
Miss Julia A. Bennell (593567)

*Current periodicals:* A, C, E, F, M, N, P, R, T, X, Y

**STAFFORDSHIRE UNIVERSITY**

School of Computing, Staffordshire University, Leek Road, Stoke-on-Trent, ST4 2AZ.  
Tel/Fax: 01782 294026

***Mathematics and Statistics Group***

Burrows, Prof. Brian [cmtblb@soc.staffs.ac.uk](mailto:cmtblb@soc.staffs.ac.uk)  
Easton, Dr. Sarah\* [cmtsje@soc.staffs.ac.uk](mailto:cmtsje@soc.staffs.ac.uk)  
Pratt, Mr. Fred [cmtjfo@soc.staffs.ac.uk](mailto:cmtjfo@soc.staffs.ac.uk)  
Talbot, Dr. Richard F. [cmtrft@soc.staffs.ac.uk](mailto:cmtrft@soc.staffs.ac.uk)

*Research students*

Millington, June (Measurement of disorder in non-periodic sequences, Burrow, Prof. B, Talbot, Dr. R.)

**UNIVERSITY OF STIRLING**

The University of Stirling, Dept. of Computing Science and Mathematics, Stirling, Scotland FK9 4LA.  
Tel: 01786 467460 Fax: 01786 464551

***Mathematics and Statistics Group, Department of Computing Science & Mathematics***

<http://www.cs.stir.ac.uk/math/>

Dr. F.K. Bell (467462) (algebraic graph theory)  
Dr. P.S. Jackson (467430) (algebraic graph theory)  
Prof. P. Rowlinson\* (467464) (algebraic graph theory)

*Lecture courses*

Discrete structures (44 lectures, 1st year u/g)  
Combinatorics (32 lectures, 3rd/4th year u/g, alternate years)  
Algebra and codes (32 lectures, 3rd/4th year u/g, alternate years)

*Current periodicals:* C, F, P, R, X, Y, b, d

**UNIVERSITY OF SURREY**

University of Surrey, Guildford, Surrey GU2 5XH.  
Tel: 01483 300800 Fax: 01483 259385

<http://www.eim.surrey.ac.uk/math/>

***Department of Mathematics and Statistics***

*Honorary Visiting Senior Research Fellows*

Dr. A.D. Keedwell\* (Latin squares and quasigroups, finite projective planes, coding theory)

Dr. P.J. Owens (cycles in graphs, Latin squares)

***Department of Electronic and Electrical Engineering***

Dr. D.R.B. Burgess (Coding and security in communications)

*Lecture courses*

Groups and symmetry (36 lectures, 2<sup>nd</sup> year u/g, Prof. Bridges)

Algorithms and data structures (36 lectures, 2<sup>nd</sup> year u/g, Mr. Bish)

Statistical methods (36 lectures, 2<sup>nd</sup> year u/g, Dr. Young)

*Current periodicals:* C, E, F, T, X, Y, b, c, i

**UNIVERSITY OF SUSSEX**

University of Sussex, Brighton, East Sussex BN1 9QH.

Tel: 01273 678105 Fax: 01273 678097

<http://www.maths.susx.ac.uk>

***School of Mathematical Sciences***

Dr. J.W.P. Hirschfeld\* (finite geometry, coding theory) <http://www.maths.susx.ac.uk/Staff/JWPH/>

Dr. R.P. Lewis (theory of partitions) <http://www.maths.susx.ac.uk/Staff/RPL.html/>

*Research students*

L. Guizzi (Dr. Hirschfeld, finite geometry)

P.R. Hammond (Dr. Lewis, number theory)

*Lecture courses*

Discrete Maths I (30 lectures, 1<sup>st</sup> yr u/g, Dr. Wraith)

Discrete Maths II (30 lectures, 1<sup>st</sup> yr u/g, Dr. Lewis)

Number theory (30 lectures, 2<sup>nd</sup> year u/g, Dr. Lewis)

Graph theory (30 lectures, 3<sup>rd</sup> and 4<sup>th</sup> year u/g, Dr. Lewis)

Coding theory (30 lectures, 3<sup>rd</sup> and 4<sup>th</sup> year u/g, Dr. Hirschfeld)

Algebraic geometry I (30 lectures, p/g, Dr. Hirschfeld)

Algebraic geometry II (30 lectures, p/g, Dr. Hirschfeld)

*Seminars*

Topology, Algebra and Geometry Group seminars, Dr. Lewis. Fridays 12.30 p.m.

<http://www.maths.susx.ac.uk/Seminars/TAGG/Current.html>

*Working Paper series*

<http://www.maths.susx.ac.uk/Reports/TAGG/index.html>

TAGG research reports can be requested from Richard Chambers ([r.j.chambers@sussex.ac.uk](mailto:r.j.chambers@sussex.ac.uk))

*Current periodicals:* E, F, P, R, T, X, c

**UNIVERSITY COLLEGE, LONDON**

University College, Gower Street, London WC1E 6BT.

Tel: 0171 387 7050 Fax: 0171 383 5519

***Department of Mathematics***

(extension 2838)

Prof. C.A. Rogers (retired), Prof. D.G. Larman, Prof. D. Preiss, Prof. K.M. Ball, Dr. J.A. Haight, Dr. I. Leader\*, Prof. P. McMullen, Dr. A.D. Scott, Prof. I. Barany, M. Csornyei

*Research Students*

M. Antilla (Prof. Ball)

R. Johnson (Dr. Leader)

S. Sezgin (Prof. Larman)

J. Talbot (Dr. Leader)

*Lecture courses*

Optimisation (2<sup>nd</sup> year u/g, Dr. Leader)

Graph Theory and Combinatorics (3rd year u/g, Dr. Leader)

Geometry of numbers (3rd year u/g, Prof. Larman)

Computational Geometry (3<sup>rd</sup> year u/g, Prof. McMullen)

Game theory (3rd year u/g, Prof. Binmore)

*Seminar*

Colloquium (Wednesdays at 2.30 p.m.)

Informal Seminar, Mondays at 4.00pm

***Department of Economics***

Prof. K. Binmore

***Department of Biology (Galton Laboratory)***

Prof. C.A.B. Smith

**UNIVERSITY COLLEGE, SWANSEA**

University College, Swansea SA2 8PP.

Tel: 01792 205678 Fax: 01792 295618

***Department of Mathematics***

Dr. F.W. Clarke, Dr. R.J. Cook\*, Dr. A.D. Thomas

*Lecture courses*

Combinatorics (20 lectures, 3rd year u/g, Dr. Cook)

Applied algebra (40 lectures, 3rd year u/g, Dr. Clarke)

*Department of Chemistry*

C.W. Haigh

**VODAFONE LIMITED**

The Courtyard, 2-4 London Road, Newbury, Berkshire RG14 1JX.

Tel: 01635 33251 Fax: 01635 31127

Dr. S. Babbage, Dr. J. Brown, Dr. C. Cooke, S. Dobinson, Dr N. Jefferies, S. Manning, Prof. M. Walker\*, R. Wright, Dr. D. Youngs.

(Cryptography, randomness, statistics, applications of graph theory and combinatorics)

*Current periodicals: N, Z*

## **UNIVERSITY OF WARWICK**

University of Warwick, Coventry, CV4 7AL.

### ***Department of Computer Science***

Tel: 024 7652 3193 Fax: 024 7657 3024

<http://www.dcs.warwick.ac.uk/>

Dr. L.A. Goldberg\* (combinatorial algorithms, randomised algorithms) 024 7652 3363

<http://www.dcs.warwick.ac.uk/~leslie/>

Dr. Paul Goldberg (combinatorial algorithms, VC dimension) 024 7652 3088

<http://www.dcs.warwick.ac.uk/~pwg/>

Prof. M. Paterson (string algorithms, combinatorial algorithms) 024 7652 3194

<http://www.dcs.warwick.ac.uk/~msp>

### *Research Students*

Hesham Al-Ammal (Goldberg) (contention resolution protocols)

Graham Cormode (Paterson) (data compression and combinatorial algorithms)

Steven Kelk (Goldberg) (combinatorial algorithms, randomised algorithms)

Jon Sharp (Paterson) (combinatorial algorithms)

### *Lecture courses*

Mathematics for computer scientists (1st year u/g)

Discrete Maths 1 (1st year u/g)

Discrete Maths 2 (1st year, u/g)

Data Structures and Algorithms (2nd year, u/g)

Complexity of algorithms (3rd year, u/g)

### *Web Page*

Algorithms and Complexity Theory Research Group

<http://www.dcs.warwick.ac.uk/~leslie/theory.html>

### ***Warwick Business School***

Phone: 024-76528220 Fax: 024-76524539

Dr. Bo Chen (Combinatorial Optimisation, On-line/off-line deterministic/randomised combinatorial algorithms) 024-76524755

Dr. Vladimir Deineko (Combinatorial Optimisation, Polynomially Solvable Cases on NP-hard Problems) 024-76524501

### *Lecture courses*

Mathematical Programming (1st, 2nd, 3rd year u/g and master students)

Operational Research (4rd year, u/g)

Optimisation (master students)

## **ZERGO LIMITED**

The Square, Basing View, Basingstoke, Hants RG21 2EG

Tel: +44 (0) 1256 818800 Fax: +44 (0) 1256 812901

Prof. H. Beker\*, Dr. C. Ciechanowicz, (information security)