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Academy for PhD Training in Statistics

Week 3: University of Leeds

4 – 8 August 2014

EPSRC

Engineering and Physical Sciences Research Council

Welcome to Leeds!

Workshop registration: Registration on Monday 4th August 2014 will take place between 11:15 and 12:45 in the foyer of Rupert Beckett Lecture Theatre (RBLT) in Michael Sadler Building, marked as **78** on the enclosed campus map[1] (see page 6).

You will receive your participant's badge from the desk. Please wear your badge at all times — this will assist security and will also help you and others to identify fellow participants. Local organisers (staff and PhD students) will also be wearing badges with names on a coloured background, so could be easily identified.

You will receive access details for your temporary account on the University of Leeds computer system. Delegates with accommodation booking will also receive a key from their room at Storm Jameson Court in Charles Morris Hall (**#86**), and those with food booking will get their food vouchers (see page 5 for more details).

The Venues:

- All lectures will take place in Rupert Beckett Lecture Theatre (RBLT) at Michael Sadler Building (**#78**).
- One of the Applied Stochastic Processes sessions will be held as a workshop in Room LG.10, also in Michael Sadler Building (**#78**).
- Computer lab sessions will be held in Cohen Clusters A & B at Chemistry Building (**#55**). Directions: from Parkinson Court (**#60**) go up the stairs at the Café end and turn right at the top of the stairs. Turn right again through the double doors. Take the first left into the cluster.
  Cohen clusters A & B (with 49 computers each) are separated by a partition wall which can be opened to create one large teaching space if necessary..
- Evening sessions on Monday–Thursday will be less formal and more relaxing, and will be held, respectively, in Parkinson Court (**#60**), The Terrace at Leeds University Union (**#32**), Rupert Beckett Lecture Theatre (**#78**), and in University House (**#28**).

For more details, please consult the APTS timetable (page 8) and the description of the evening sessions (pages 9–10).

Refurbishment: Part of the University campus is currently under refurbishment (until December 2014), affecting Social Sciences Building (**#82**) and the adjacent areas. The pedestrian footpaths around the construction sites are clearly marked. We apologise for any inconvenience, which however should be minimal.

The School of Mathematics Building (**#84**) is also undergoing a major refurbishment (June 2014 – June 2015) implementing a third (and final) phase of a multi-millon renovation project. Many of our academic, research and support staff, and most of the PhD students, have been relocated to a temporary accommodation across the University campus, including Physics Research Deck (**#69**) and Engineering Building (**#48**); others

[1] Location of various buildings within the University campus is indicated in this booklet by a number in the form **#n** referring to the campus map on page 6 an interactive map is found here: `http://www.leeds.ac.uk/site/custom_scripts/campus_map/`

have stayed in the already renovated location known as 'Satellite' (Level 10, E C Stoner Building, **#73**). However, all telephone numbers have remained the same. We are sorry for not being able to welcome you on the School of Mathematics grounds, but please do feel free to contact us by email or telephone whilst on the campus, and we hope you will visit us again in the near future to see a new home for Mathematics at Leeds.

Campus Tours: Short 30-min tours around the University campus will be organised during registration on Monday 4th August, with two groups starting at 12:00 and 12:30, respectively. Please complete your registration prior to joining a tour.

Getting to the University:

- By train: You can find train timetable information at `www.nationalrail.co.uk`. There is a taxi rank outside the main entrance of the train station. The taxi fare to Parkinson Building (**#60**) should be about £4, and to Storm Jameson Court (**#86**) about £5. Bus 1 travels past the University main entrance every 10 minutes; you can catch the service from Infirmary Street on City Square close to the train station. There is also a frequent Leeds CityBus service which takes you from the train station to the southern end of campus on Clarendon Way (near the back of The Edge Sport Centre **#101**), but the journey time is longer.
- On foot: The University campus is a 20 minute walk from the train station. Come out of the station into City Square; walk straight up Park Row and continue until the first major junction. Cross straight over The Headrow and continue up Cookridge Street. At the next set of lights go straight on passing Millennium Square on your left and Leeds City Museum on your right. Turn left on to Woodhouse Lane, a busy main road. You will pass Leeds Metropolitan University on your left and our University campus begins in another 50 metres or so, on your left. To reach the Parkinson Building (**#60**), carry on up Woodhouse Lane to the clock tower building. You will be able to look at a map of campus there.
- By coach: If you arrive by coach (to Leeds City Bus Station), you can catch there buses 6, 28 or 97 to the University (Parkinson Building, **#60**). There is also a taxi rank; a taxi will take about 10 minutes and cost approximately £5.
- By air: Leeds Bradford Airport (LBA) is about 10 miles from the University and city centre; a taxi to Parkinson Building or Charles Morris Hall will cost £21.50. The price is based on Arrow Cars, the only licensed taxi company operating a door-to-door service from LBA. You can book a taxi from their office at the airport when you arrive, or pre-book on `https://ebook.autocab.net/arrow/lbia/` or call 0113 258 5888. There is also bus 757 from the airport to the city bus station, and regular buses from there to the University campus.
- By car: Leeds is linked to the M1 and M62 motorways. If you are using satellite navigation, address details for the main entrance to our site are:

  University of Leeds, Woodhouse Lane, Leeds LS2 9JT

  (street listing can appear as Cavendish Road in some navigation systems).

  If you are driving directly to your accommodation (Storm Jameson Court at Charles Morris Hall **#86**), then please use the following address details:

  Mount Preston Street, Leeds, LS2 9JP.

Car Parking: Parking for the workshop participants is available on campus on a first come, first served basis in the Visitors Car Park (Orange Zone) and is charged at £5 per day. Entrance to the Visitors Car Park is from Woodhouse Lane via Cavendish Road between Parkinson Building (**#60**) and Emmanuel Centre (**#62**), which is shown on the campus map as 'MAIN ENTRANCE — VISITOR PARKING'.

However, please be aware that parking facilities are limited and spaces cannot be guaranteed. If you do require parking, please contact the local organisers in advance. The University is also committed to reducing carbon emissions, so staff and visitors are encouraged to walk, cycle or use public transport where possible.

The closest public car park is Woodhouse Moor Multi-Storey which is open 24 hours a day. For more information, please refer to `www.parkopedia.co.uk`.

IT: Computing facilities (PC terminals) are available during the workshop in Cohen Clusters A & B at Chemistry Building (**#55**). Wireless access to basic Internet services is provided for free via '`Meet in Leeds`' WiFi (unsecured) network; alternatively, you can connect to the `eduroam` network (using your own institution access details), which is supported across most of the University campus.

You are encouraged to bring your own laptop to work on during the training sessions. Detailed information about software requirements and configuration can be found at: `http://www.stats.ox.ac.uk/~ripley/APTS2013/`.

Login details for the University computer system and wireless network will be supplied with your registration pack. The use of the computer system and network is subject to the University of Leeds Use of Computer System Policy. Please do not disclose your computer access credentials to anybody else.

Messages: The telephone number for colleagues or family to leave an urgent message for you during office hours is 0113 343 3638 (Conference & Events Office). Alternative numbers to use are: 0113 343 5130 (School of Mathematics Reception) and 0113 343 2750 (Storm Jameson Court Reception, 24-hour service).

Bars: Several bars and cafés can be found within Leeds University Union (LUU, **#32**), including 'Hidden Café', 'The Old Bar', and 'The Terrace'. Further cafés are at Parkinson Court (**#60**) and Refectory ('Mezz Bar', **#29**), and also opposite Parkinson Building on Woodhouse Lane.

Other Campus Facilities: Facilities within the LUU include: a stationery & convenience store ('Essentials'); a card shop ('CATS'); copy shop; travel shop; hairdresser; opticians; University merchandise shop ('Gear'), and Blackwells bookshop. There are cash dispensers in the LUU and also outside Marjorie & Arnold Ziff Building (**#77**).

All participants (at a small charge) can use the facilities at The Edge Sports Centre (**#101**), including a gym and swimming pool.

After Hours Access: The doors to University buildings are locked after 17:00. You may remain in the building but please be aware that there is no easy way of getting back in once you leave.

Accommodation Information

Your room: Workshop participants with accommodation have been booked in to single bedrooms at Storm Jameson Court in Charles Morris Hall (**#86**). This accommodation is provided for up to 4 nights, from afternoon on Monday 4th August (arrival) until morning on Friday 8th August (departure).

Please collect your room key when registering on Monday 4th August at the Michael Sadler registration desk (**#78**); after that, keys will be available at the Storm Jameson Court Reception (24-hour service).

Storm Jameson Court, built to the highest modern specification, offers comfortable hotel-type single en-suite bedrooms featuring: superior single beds, floor-to-ceiling windows, data access, room safes, free WiFi access, an IPTV television, individual toilet and shower, bedding, towels, basic toiletries, and tea- and coffee-making facilities. Prior to arrival, you can view our accommodation through `www.meetinleeds.co.uk`.

Rooms are arranged to include a lounge and shared kitchen for every five or six bedrooms, equipped with comfortable sitting and a plasma screen TV.

Reception: Storm Jameson Court Reception staff (24-hour service) will be pleased to answer your queries. You can contact Reception by internal phone from your bedroom or by direct line on 0113 343 2750.

Checking in & out: Even though you will have received your room key at the registration at Michael Sadler Building, you should report to the Storm Jameson Court Reception (**#86**) to check in to your accommodation. Rooms will be definitely available for check-in starting from 14:00 on Monday 4th August; it may be possible for delegates to check in earlier, but please do not rely on this. Please vacate your bedroom by 10:00 in the morning on the day of departure.

NOTE: Please inform the Reception staff on arrival of any difficulties (e.g., hearing or walking) you may have in the unlikely event of evacuation.

Keys: You will receive your key at the registration on Monday 4th August in Michael Sadler Building; alternatively, you can get your key directly from the Storm Jameson Court Reception. The key gives access both to your room and the outer door of the Residence. Upon departure the keys should be returned to the Reception.

NOTE: Please take care of your key; it is strongly recommended not to lend it to another person. Please be aware that you are responsible for your key; in case of its loss or misplacement, you may be required to pay an administrative charge.

Luggage: If you require storage for your luggage, please ask at the Storm Jameson Court Reception which provides a secure area for luggage storage.

Internet WiFi access: All bedrooms are networked to provide free wireless Internet access. Login details provided at registration are needed to access the University computer network by choosing '`Meet in Leeds`' as your WiFi (unsecured) network. This

can be used throughout the University campus. Alternatively, you can connect to the `eduroam` network using your institution access details.

Meals: All meals, except tea & coffee breaks and the Academy Dinner, will be held at Refectory North (**#29**).

Participants with food booking are entitled for lunch (12:45–14:15, Monday–Thursday) and dinner (17:45–19:00, Monday–Wednesday). You will be provided with vouchers for lunch (meal deal & hot/cold drink, to the value of £6.50) and dinner (two course meal & soft drink). Please note, there is no lunch on Friday 8th August.

If the value of your lunch is less than £6.50, no refund will be given; if it is more then you will need to 'top up' and pay the difference.

Participants with accommodation booking are also entitled for breakfast (08:00–09:00, Tuesday–Friday) at Refectory North, with hot & cold provision.

All participants are booked for a Drinks Reception and Academy Dinner, which will be held on Thursday 7th August from 18:00–20:30 at University House (**#28**).

Refreshments during tea & coffee breaks between the training sessions (10:45–11:15 and 15:15–15:45) will be served in the foyer of Rupert Beckett Lecture Theatre (**#78**).

Fairbairn House – 6

Maurice Keyworth Building – 19

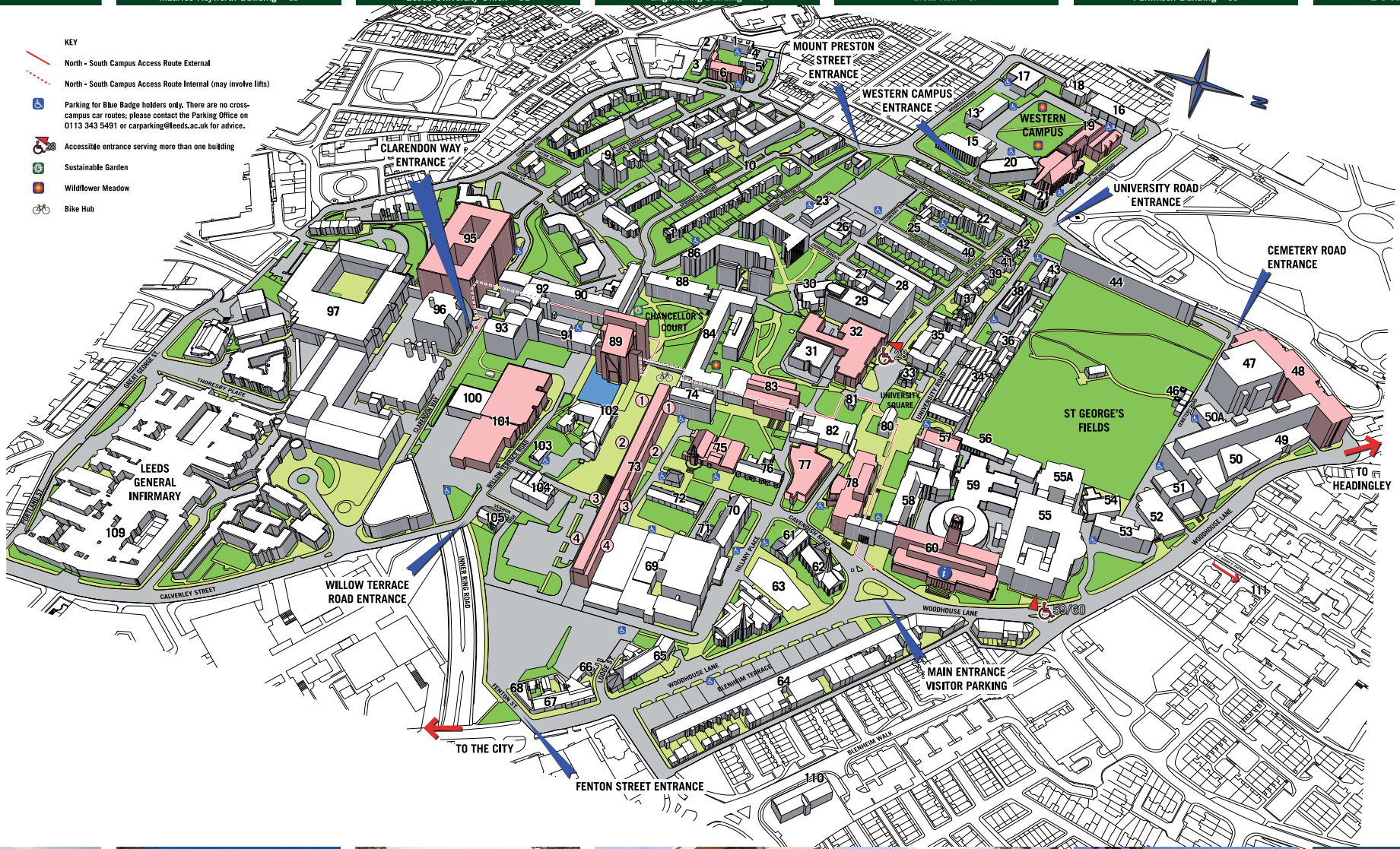
Leeds University Union – 32

Engineering Building – 48

Great Hall – 57

Parkinson Building – 60

E C Stoner Building – 73



Music & Clothworkers' Centenary Concert Hall – 75

Marjorie & Arnold Ziff Building – 77

Michael Sadler Building – 78

Edward Boyle Library – 83

Roger Stevens Building – 89

Worsley Building – 95

The Edge – 101

73 Academic Quality and Standards Team: E C Stoner Entrance 4
64 Access and Community Engagement: 18 Blenheim Terrace
77 Accommodation Office: Marjorie and Arnold Ziff Building
73 Alumni and Development: E C Stoner Entrance 3
78 Arabic and Middle Eastern Studies: Michael Sadler Building
60 Art Gallery, The Stanley and Audrey Burton: Parkinson Building
92 Astbury Building
58 Baines Wing
33 Beech Grove House
81 Beech Grove Terrace 18
93 Biological Sciences: L C Miall Building (also in **91**, **92**, **96**, **90**)
64 Blenheim Terrace (11-14, 17)
80 Botany House (13-15 Beech Grove Terrace)
23 Bright Beginnings Childcare Centre
59 Brotherton Library
(access via Parkinson Building, via Chemistry (55))
19 Business School: Maurice Keyworth Building (also in 10-12 & 14-20 Cromer Terrace (**27**), 18-26, 21-23 & 31 Lyddon Terrace (**22**), 4 Springfield Mount (**10**), **16**, **18**, **20**)
16 Business School – Centre for Decision Research: Liberty Building
22 Business School – Centre for Employment Relations, Innovation and Change: 31 Lyddon Terrace
10 Business School – Centre for Innovation in Health Management: 4 Springfield Mount
27 Business School – Centre for International Business: 14-20 Cromer Terrace
27 Business School – Centre for Technology, Innovation and Entrepreneurship: 10-12 Cromer Terrace
22 Business School – Confucius Business Institute: 18 Lyddon Terrace
20 Business School – Corporate Relations: Leeds Innovation Centre
27 Business School – India and South Asian Business Centre: 10-12 Cromer Terrace
22 Business School – Leeds Enterprise Centre: 23 Lyddon Terrace
22 Business School – Professional Development Hub: 26 Lyddon Terrace
22 Business School – Professional Services Sector: 20 Lyddon Terrace
22 Business School – Research and Innovation office, Faculty Graduate School: 21 Lyddon Terrace
16 Business School – Socio-Technical Centre: Liberty Building
27 Business School – White Rose East Asia Centre: 14-20 Cromer Terrace
26 Careers Centre: 5-7 Cromer Terrace
72 Cavendish Road 3-9 (**7**)
76 Cavendish Road 6-10
46 Cemetery Lodge
95 Centre for Interdisciplinary Gender Studies: Worsley Building
62 Chaplaincy: Emmanuel Centre; Catholic Chaplaincy: 5-7 St Mark's Avenue (**111**); Jewish Chaplaincy: Hillel House (**11**)
86 Charles Morris Hall, comprising: Dobree House; Storm Jameson Court, East & West; and Whetton House.
15 Charles Thackrah Building
55 Chemistry
55A Chemistry West Block
49 Civil Engineering
25 Clarendon Place (19-21, at rear)
60 Classics: Parkinson Building
70 Cleaning Services: 5-9 Hillary Place
2 Clinical Trials Research House ; Annex (**4**)
34 Clothworkers' Building Central & Link
56 Clothworkers' Building North
35 Clothworkers' Building South (radar key)
75 *Clothworkers' Centenary Concert Hall
71 Coach House (rear 5-9 Hillary Place)
77 Communications Team: Marjorie and Arnold Ziff Building
73 Computing: E C Stoner Entrance 1 North
100 Conference Auditorium
28 Conferences and Events: University House
27 Cromer Terrace (not 10-12)
27 Cromer Terrace Fitness Studio: 22 Cromer Terrace
77 Deputy Vice-Chancellor: Marjorie and Arnold Ziff Building
34 Design: Clothworkers' Building Central (also in **35**, **21**, **36**)
55A Disabled Students' Assessment and Support: Chemistry West Block
84 Earth and Environment: Maths/Earth and Environment Building
78 East Asian Studies: Michael Sadler Building (also in 14-20 Cromer Terrace (**27**))
73 *E C Stoner Building
70 Education: 5-9 Hillary Place (also in **73**)
83 *Edward Boyle Library
51 Electronic and Electrical Engineering (at rear)
22 Ellerslie Global Residence, comprising: the Hall; 15-19 Lyddon Terrace; and 37-41 Lyddon Terrace
62 Emmanuel Centre
47 Energy Building
48 *Engineering Building
76 English: 6-10 Cavendish Road (also in 5-9 Cavendish Road (**72**), **61**, **69**, **78**)

55A Equality Policy Unit: Chemistry West Block
54 Estate Services
54 Estate Services Helpdesk: Estate Services
77 Facilities Directorate
65 Faculty of Arts Office: Hopewell House, 173 Woodhouse Lane
93 Faculty of Biological Sciences Reception: L C Miall Building
19 Faculty of Business Reception: Maurice Keyworth Building
33 Faculty of Education, Social Sciences and Law Office: Beech Grove House
51 Faculty of Engineering Office: Electronic and Electrical Engineering
42 Faculty of Environment Office: Lifton Villas, 1-3 Lifton Place
55 Faculty of Mathematics and Physical Sciences Reception: Chemistry
95 Faculty of Medicine and Health Office: Worsley Building
35 Faculty of Performance, Visual Arts and Communications Office: Clothworkers' Building South
5 Fairbairn House – MacMillan Wing
6 *Fairbairn House – Main Building
3 Fairbairn House – Suite A
1 Fairbairn Site Blocks A, C, D, E, Hallas Wing
68 Fenton Street
73 Finance: E C Stoner Entrance 2 (also in **77**)
53 Fine Art, History of Art and Cultural Studies: Old Mining Building (also in **55**, **41**, **40**, **46**)
102 Food Science and Nutrition: Food Science Building (also in **55**)
78 French: Michael Sadler Building
90 Garstang Building
38 Geography (also in **36**)
36 Geography East
78 German, Russian and Slavonic Studies: Michael Sadler Building
57 *Great Hall
17 Gryphon Sports Centre
103 Health and Safety Services: 5-9 Willow Terrace Road
95 Health Sciences Library: Worsley Building
58 Healthcare: Baines Wing
44 Henry Price Residences
70 Hillary Place 5-9
78 History: Michael Sadler Building (also in **60**)
65 Hopewell House (173 Woodhouse Lane)
73 Human Resources: E C Stoner Entrance 2
9 Hyde Terrace 30/32
25 Institute for Colonial and Postcolonial Studies: 29-31 Clarendon Place
60 Institute for Medieval Studies: Parkinson Building
43 Institute for Transport Studies: 34-40 University Road (also in **69**)
56 Institute of Communications Studies: Clothworkers' Building North
37 Institute of Psychological Sciences: Psychology Building (also in **39**)
68 Inter-Disciplinary Ethics Applied: 8-12 Fenton Street (also in 169b Woodhouse Lane (**65**))
77 International Centre: Marjorie and Arnold Ziff Building
77 International Foundation Year: Marjorie and Arnold Ziff Building
91 Irene Manton Building
78 Italian: Michael Sadler Building
83 IT Helpdesk: Edward Boyle Library
74 IT Services
105 Jerusalem Chapel
93 L C Miall Building
60 Language Centre: Parkinson Building (also in **77**, **22**)
25 Lattitude Global Volunteering: 22 Clarendon Place
16 Law: Liberty Building
81 Learning and Teaching Support Office: 18 Beech Grove Terrace
95 Leeds Dental Institute: Worsley Building
97 Leeds General Infirmary – Clarendon Wing; Martin Link (**109**)
25 Leeds Humanities Research Institute: 29-31 Clarendon Place
20 Leeds Innovation Centre/Hub/Bioincubator
2 Leeds Institute of Clinical Trials Research: Clinical Trials Research House (also in **1**, **4**, **6**)
96 Leeds Institute of Genetics, Health and Therapeutics (LIGHT) (also in **95**, **90**)
15 Leeds Institute of Health Sciences: Charles Thackrah Building
95 Leeds Institute of Medical Education: Worsley Building
109 Leeds Institute of Rheumatic & Musculoskeletal Medicine: Martin Link (also in **95**)
33 Leeds Social Sciences Institute: Beech Grove House
32 *Leeds University Union GNT
16 Liberty Building
Library (**59**, **83**, **95**, (**63** under construction until Spring 2015))
77 Lifelong Learning Centre: Marjorie and Arnold Ziff Building
40 Lifton Place 4
41 Lifton Studios (5-7 Lifton Place)
42 Lifton Villas (1-3 Lifton Place)
78 Linguistics and Phonetics: Michael Sadler Building
88 LOGIK Centre: Staff Centre (also in **73**)
66 Lodge Street (**3**)
30 Lyddon Hall comprising: the Hall; 13-31 Cromer Terrace (**27**); 10, 17 & 27 Clarendon Place (**25**); and 32 Springfield Mount (**10**)
22 Lyddon Terrace (18-26)

13 Marks & Spencer Company Archive: Michael Marks Building
77 *Marjorie and Arnold Ziff Building GNT
73 Marketing Team: E C Stoner Entrance 4
84 Mathematics: Maths/Earth and Environment Building
84 Maths/Earth and Environment Building
19 *Maurice Keyworth Building
50 Mechanical Engineering (radar key)
50A Medical and Biological Engineering
95 Medicine: Worsley Building
13 Michael Marks Building
78 *Michael Sadler Building GNT
78 Modern Languages and Cultures: Michael Sadler Building
75 *Music and Clothworkers' Centenary Concert Hall
100 Muslim Prayer Hall: Conference Auditorium
6 National Institute of Health Research: Fairbairn House (also in **5**, **25** (16 Clarendon Place), **10** (17 Springfield Mount))
104 NHS Postgraduate Medical and Dental Education (Yorkshire and the Humber Postgraduate Deanery)
34 Nonwovens Innovations and Research Institute Limited: Clothworkers' Building Central
103 Occupational Health Service: 5-9 Willow Terrace Road
53 Old Mining Building
60 *Parkinson Building (via Chemistry (**55**))
31 Performance and Cultural Industries: PCI & stage@leeds (also in **35**)
65 Philosophy, Religion and the History of Science: 173 Woodhouse Lane (also in **58**, **64**, **72**, **78**)
73 Physics and Astronomy: E C Stoner Entrance 3 (also in **69**)
69 Physics Research Deck
80 Politics and International Studies: Botany House (also in **9**, **10**)
89 Print and Copy Bureau: Roger Stevens Building
48 Process, Environmental and Materials Engineering: Engineering Building (also in **47**)
77 Pro-Vice-Chancellors: Marjorie and Arnold Ziff Building
37 Psychology Building
72 Purchasing: 3 Cavendish Road
29 Refectory
15 Research and Innovation Services: Charles Thackrah Building
28 Residential Services: University House (also in **77**)
89 *Roger Stevens Building

73 Secretariat (including Legal Advisor and Academic Appeals and Regulation): E C Stoner Entrance 4
65 Security Office: 175 Woodhouse Lane
64 Skills@Library: 15 Blenheim Terrace
82 Social Sciences Building (under refurbishment until Dec 2014)
95 Sociology and Social Policy: Worsley Building
78 Spanish, Portuguese and Latin American Studies: Michael Sadler Building
101 Sport and Physical Activity: The Edge (also in **17**, **27** (22 Cromer Terrace), **105**)
10 Springfield Mount
58 Staff and Departmental Development Unit: Baines Wing (Graduate Training and Support Centre in **55**)
88 Staff Centre (also possible via Maths/Earth and Environment (**84**) from NSCAR)
28 Staff Counselling: University House
31 stage@leeds: PCI & stage@leeds
60 Stanley and Audrey Burton Art Gallery: Parkinson Building
73 Strategy and Planning: E C Stoner Entrance 3
77 Student Administration: Marjorie and Arnold Ziff Building
25 Student Counselling Centre: 19-21 Clarendon Place
77 Student Services Centre: Marjorie and Arnold Ziff Building
101 *The Edge
73 Trade Union Offices: E C Stoner Entrance 3
78 Translation Studies: Michael Sadler Building
21 ULITA: An Archive of International Textiles
67 UNIPOL: 155-157 Woodhouse Lane
57 University Archive: Great Hall (also in **60**)
28 University House (via Refectory (**29**))
43 University Road 34-40
39 University Road 41
77 University Secretary: Marjorie and Arnold Ziff Building
77 Vice-Chancellor: Marjorie and Arnold Ziff Building
103 Wellbeing, Safety and Health: 5-9 Willow Terrace Road
18 Western Lecture Theatre
103 Willow Terrace Road 5-9
67 Woodhouse Lane 153-157
65 Woodhouse Lane 169-177 (**173**, **175**)
61 Workshop Theatre
95 *Worsley Building
25 Yorkshire Universities: 22 Clarendon Place

Key to symbols

- Coffee bars
- Computer clusters
- * Key navigational building (pictured overleaf)
- Prayer and contemplation. Also at Chancellor's Court and St George's Fields (not listed)
- Baby-changing facilities
- Accessible toilet
- Accessible entrance
- Accessible entrance and toilet
- GNT Gender Neutral Toilets
- Safe Spaces

Occupants are shown against the building housing their main reception. Symbols refer to non-residential buildings only. 'Accessible entrance' refers only to the entrance and does not imply a fully accessible building.

Copies of the campus map can be obtained from Disabled Students' Assessment and Support, Leeds University Union helpdesk, Parkinson Building information point, Print and Copy Bureau, The Edge.

For more information or a large-print version of the map directory, see **http://www.leeds.ac.uk/campusmap**

The campus is on a steeply sloping site and details of level cannot easily be shown on the map; visitors are advised to check with the person they are visiting for the best route to their destination.

Feedback on the map or campus wayfinding system can be sent to **epi@leeds.ac.uk**

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UNIVERSITY OF LEEDS

APTS Timetable

	Monday 4 August	Tuesday 5 August	Wednesday 6 August	Thursday 7 August	Friday 8 August
09:15 – 10:45		**ASP** (lecture) *RBLT*	**ASP** (lecture) *RBLT*	**ASP** (lecture) *RBLT*	**ASP** (lecture) *RBLT*
10:45 – 11:15		**Tea & Coffee**			
11:15 – 12:45	**Registration** *RBLT Foyer* **& Campus Tours** (12:00–13:00)	**CIS** (lecture) *RBLT*	**CIS** (lecture) *RBLT*	**CIS** (lecture) *RBLT*	**CIS** (lecture) *RBLT*
12:45 – 14:15	**Lunch** *Refectory North*				**Closing** (12:45–12:50)
	Welcome (14:00–14:15) *RBLT*				
14:15 – 15:15	**ASP** (lecture) (14:15–15:45) *RBLT*	**ASP** (lecture) *RBLT*	**ASP** (workshop) *LG.10*	**ASP** (lecture) *RBLT*	
15:15 – 15:45	**Tea & Coffee** (15:45–16:15)	**Tea & Coffee**			
16:00 – 17:30	**CIS** (lecture) (16:15–17:45) *RBLT*	**CIS** (lab) *Cohen A & B*	**CIS** (lab) *Cohen A & B*	**CIS** (lab) *Cohen A & B*	
17:45 – 19:00	**Dinner** *Refectory North*			**Drinks Reception** (18:00–18:30) & **Academy Dinner** (18:30–20:30) *University House*	
19:30 – 21:00	**RSS Wine Reception** *Parkinson Court*	**Pub Quiz** *The Terrace, LUU*	**"Statistics in Real World"** *RBLT*		

ASP = Applied Stochastic Processes (see page 12)
CIS = Computer Intensive Statistics (see page 11)
RBLT = Rupert Beckett Lecture Theatre, Michael Sadler Building (**#78**)
LG.10 = Teaching Room LG.10, Michael Sadler Building (**#78**)
Cohen = Cohen computer clusters, Chemistry Building (**#55**)

Evening Events

- **RSS Wine Reception**
  Monday 4th August, 19:30–21:00, Parkinson Court (**#60**)

  The Royal Statistical Society (RSS) has generously offered to host a wine reception on the first evening, at which refreshments will be provided. This will take place in Parkinson Court at Parkinson Building. Representatives of the RSS Young Statisticians Section will attend and talk informally, and there will be some RSS promotional materials on display. The reception will also be attended by Leeds academic staff and current PhD students, which should provide an opportunity for socialising and networking.

- **Pub Quiz**
  Tuesday 5th August, 19:30–21:00, The Terrace, Leeds University Union (**#32**)

  This is an informal event organised by Statistics PhD students at Leeds, which will be held in a popular venue called 'The Terrace' within the Leeds University Union (it is situated straight ahead as you walk in to the main entrance of LUU).

  The event will be in the traditional form of a pub quiz, involving fun questions in and out of statistics, and with some prizes for best answers. You can form a team of up to 6 people to maximise your chances to win and to enjoy! Soft drinks and beers, along with nibbles, will be available for purchase from the bar (the venue has been booked until 22:30, so you are free to stay until then and enjoy an extra drink or two).

- **Informal session "Statistics in Real World"**
  Wednesday 6th August, 19:30–21:00, RBLT, Michael Sadler Building (**#78**)

  Statisticians working at Leeds will present some interesting facets of Statistics and its societal impact, based on their working experience. Presentations include:

  - Dr John Paul Gosling (Department of Statistics, Leeds)
    "Quantifying uncertainty to reduce animal testing"
    Abstract: Historically, animal testing has played a huge role in determining the safety of new chemicals and product formulation. Over recent years, there has been great pressure on companies to reduce the amount of animals being tested (especially for cosmetics and personal care products) and increased uptake in the use mathematical simulations. In this talk, I will show how statistics is being used to model the gap between mathematical simulation of human responses and reality.
  - Dr Paul Baxter (Division of Biostatistics, LIGHT, Leeds)
    "Are large databases good for your health? Data linkage and missing data in epidemiological research"
    Abstract: Making improved use of routinely recorded patient data for research (e.g., by linking together different data sources, whilst respecting issues of confidentiality and consent) is a current hot topic in the NHS (see, e.g., `http://www.bbc.co.uk/news/health-26239532`). In this talk I will describe some of the

statistical challenges posed by such non-randomised data, illustrated by our experience at Leeds of working with the Myocardial Ischemia National Audit Project (MINAP) Database and the Vascular Society's National Vascular Database (NVD).

- Dr Robert G. Aykroyd (Department of Statistics, Leeds)
  "Submitted, revised, ... published! Some tips for getting your research into a statistics journal"

  Abstract: Even for established researchers sending their work to a journal for possible publication is a daunting task. Publishing the results of your work is, however, a natural outcome and is a requirement for a successful academic career. Typically PhD students, and early stage researchers, may not have experience of the process of preparing their work for submission and dealing with a journal Editor, and so may not know where to start. In this presentation, based on my experience as Editor of Journal of Applied Statistics, I will describe the overall submission process and give some tips on how to make it as straightforward as possible. Also, I will discuss the process from the reviewer's and Editor's perspective.

- **Drinks Reception & Academy Dinner**
  Thursday 7th August, 18:00–16:30 (St George Room) and 18:30–20:30 (Great Woodhouse Room), University House (**#28**)

  This is a traditional APTS event generously sponsored by the EPSRC. It will take place at University House (adjacent to Refectory) which is the focus for the Hospitality and Fine Dining services offered by Great Food at Leeds.

  Please arrive in good time. Smart casual dress is recommended.

Summer Menu 2014 (University House)

Starter

Chargrilled Local Asparagus, on Toasted Brioche
with Poached Free Range Duck Egg & Herbed Hollandaise (V)

Main Course

Roulade of Chicken with Wild Mushrooms & Creamed Leeks, **or**

Vegetarian Trio: Individual Moussaka, Mushroom & Shallot Tarte Tatin,
Asparagus & Sun Dried Tomato Risotto and Gruyere Beignets (V)

Dessert

Lemon & Lime Citrus Tart & Vanilla Soaked British Strawberries
Fairtrade Coffee and Chocolates

Drinks

White – Berri Estates Unoaked Chardonnay
Red – Berri Estates Shiraz
Orange & Apple Juice, Iced Water

During the dinner the guests can select a vegetarian main course from the menu above, provided that this has been registered with the APTS in advance. The number of vegetarian main courses will be limited by such requests; we apologise for any inconvenience.

Module Details

Computer Intensive Statistics (CIS)

Module leader: Dr Adam M. Johansen (Warwick)

Aims: This module will introduce various computationally-intensive methods and their background theory, including material on simulation-based approaches such as Markov-chain Monte Carlo (MCMC) and the bootstrap, and on strategies for handling large datasets. The different methods will be illustrated by applications.

Learning outcomes: After taking this module, students will have a working appreciation of MCMC, the bootstrap and other simulation-based methods and of their limitations, and have some experience of implementing them for simple examples. Students will also have gained an appreciation of the difficulties of handling very large datasets and of some approaches to overcoming them.

Prerequisites: Preparation for this module should include a review of the following topics:

- familiarity with basic types of convergence of random variables: in probability, almost sure and in distribution;
- relevant basic material on statistical modelling (for which the earlier APTS module 'Statistical Modelling' would be advantageous);
- basic Markov chains (as for the 'Applied Stochastic Processes' module);
- basic knowledge of programming in a high-level language such as R will be assumed, and R will be used for case studies and exercises.

Topics:

- Overview of simulation-based inference; Monte Carlo testing.
- Basic theory of bootstrap methods; practical considerations; limitations.
- Basic theory of MCMC; types of MCMC samplers; assessment of convergence/mixing; other practical considerations; case studies.

Assessment: Exercises set by the module leader, which will include some practical simulation.

Applied Stochastic Processes (ASP)

Module leaders: Dr Stephen B. Connor (York), Dr Christina Goldschmidt (Oxford)

Aims: This module will introduce students to two important notions in stochastic processes — reversibility and martingales, — identifying the basic ideas, outlining the main results and giving a flavour of some of the important ways in which these notions are used in statistics.

Learning outcomes: Students successfully completing this module will be able to:

- describe and calculate with the notion of a reversible Markov chain, both in discrete and continuous time;
- describe the basic properties of discrete-parameter martingales and check whether the martingale property holds;
- recall and apply significant concepts from martingale theory (indicative list: optional stopping, martingale convergence);
- explain how to use Foster-Lyapunov criteria to establish recurrence and speed of convergence to equilibrium for Markov chains.

Prerequisites: Preparation for this module should include a review of the basic theory and concepts of Markov chains as examples of simple stochastic processes (transition and rate matrices, irreducibility and aperiodicity, equilibrium equations and results on convergence to equilibrium), and with the definition and basic properties of the Poisson process (as an example of a simple counting process).

Topics:

- Reversibility of Markov chains in both discrete and continuous time, computation of equilibrium distributions, application to important examples.
- Discrete time martingales, examples, application, super- and sub-martingales.
- Stopping times, statements and applications of optional stopping theorem, martingale convergence theorem.
- Recurrence and rates of convergence for Markov chains, application to important examples.
- Statements and applications of Foster–Lyapunov criteria, viewed using the language of martingales.
- Statistical applications and relevance (highlighted where appropriate).

Assessment: One of the following:

- Read an appropriately chosen paper (either specified or from a specified list), and identify some of the main stochastic process models and results referred to in the paper, describe their significance and use in the paper, and relate them to the material covered in the module.
- Complete appropriate exercises that are simple developments or extensions of aspects of the results in the module (that may be related in some way to models and results arising in the paper).

Medical and Emergency Information

Medical Assistance: Visitors in need of emergency medical assistance should contact Security on internal extension 32222 or externally at 0113 343 2222, and your call will be directed as appropriate.

Emergency Services and Fire Procedures: For help in an emergency dial 32222 from any internal telephone or 0113 343 2222 externally, and your call will be directed appropriately. Visitors are requested to familiarise themselves with the University's fire procedures which are displayed in each bedroom.

On hearing the continuous fire alarm:

- stop what you have been doing;
- do not delay to collect personal belongings;
- evacuate the building by the nearest Fire Exit (signposted);
- walk calmly, do not run;
- do not use the lifts;
- obey the instructions of your module leader/local organiser and of fire wardens (wearing orange armbands or fluorescent bibs);
- go to the nearest Assembly Point and await further instructions;
- do not re-enter the building until told to do so by the Fire Service or University Security staff.

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Notes