

Paper for 3. APTS year 8 (2014–15): Summary report to Advisory Committee

Preliminary: some summary counts for all seven years 2007–2015

Numbers of students who took at least one APTS week (of which, EPSRC-funded in brackets):

2007–08	2008–09	2009–10	2010–11	2011–12	2012–13	2013–14	2014–15
88 (38)	88 (37)	100 (45)	90 (37)	128 (46)	129 (40)	147 (40)	149 (42)

Number of APTS lecturers to date: 22 (This will increase to 23 in 2015–16)

Number of APTS-week host institutions to date: 10

Member Institutions

In 2014-15 there were 24 MIs, all located in the UK and Ireland.

APTS weeks, academic year 2014–15

Week 1, December 2014, Cambridge:

- *Statistical Computing* (Finn Lindgren)
- *Statistical Inference* (Jonty Rougier)
- Evening sessions: RSS Reception, JMP presentation, Pub quiz, Making a life, Academy Dinner

Week 2, March 2015, Southampton:

- *Statistical Modelling* (Antony Overstall and Dave Woods)
- *Statistical Asymptotics* (Andrew Wood)
- Evening sessions: RSS Reception, Statistics and Probability at Large, Pub Quiz, Academy Dinner

Week 3, July 2015, Warwick

- *Applied Stochastic Processes* (Stephen Connor)
- *Computer Intensive Statistics* (Adam Johansen)
- Evening sessions: RSS Reception, Pub Quiz, Academy Dinner

Week 4, August/September 2015, Glasgow:

- *Survival Analysis* (Ingrid Van Keilegom)
- *Nonparametric Smoothing* (Adrian Bowman and Ludger Evers)
- Evening sessions: RSS Reception, Ceilidh

Registrations

A total of 151 unique students were registered to attend one or more APTS week in 2014/15. Numbers of registrations for each of the four weeks were 118, 103, 105 and 79, respectively. The corresponding attendance figures were 117, 99, 95 and 77, respectively. At the end of the registration period, we were able to accommodate all students.

Of those 151 students:

- 57 were registered to attend all 4 weeks and 52 students actually did so.

- 137 were first year students in statistics or probability, of whom 41 were EPSRC funded.
- APTS Member Institutions supplied 110 of the 151 applications.

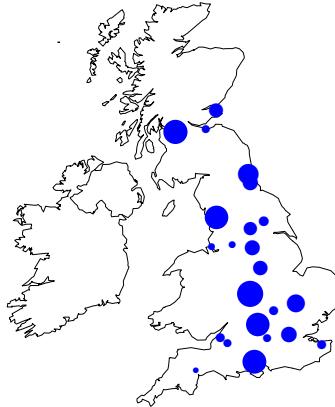


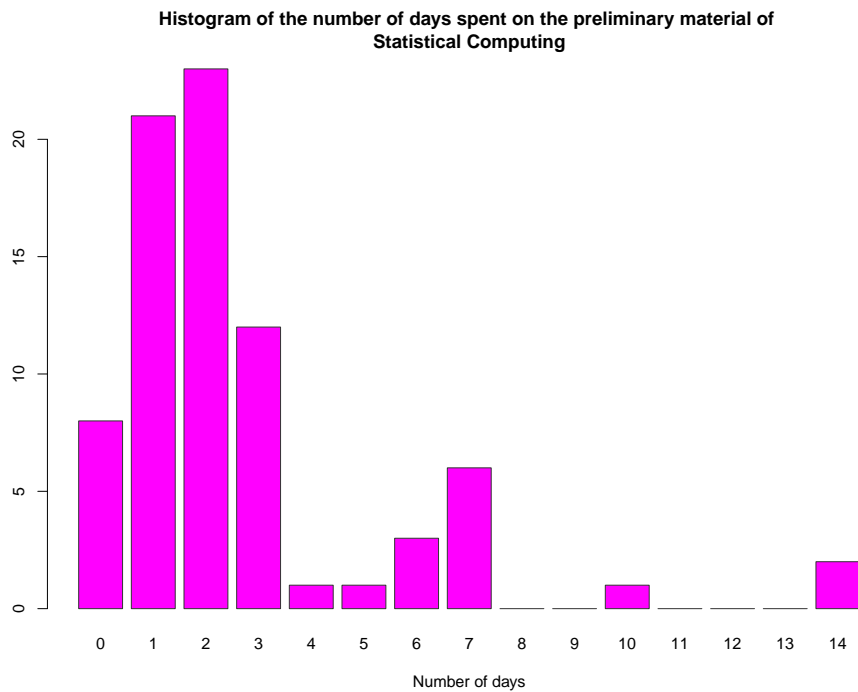
Figure 1: UK 2014/15 Registrations

Student feedback

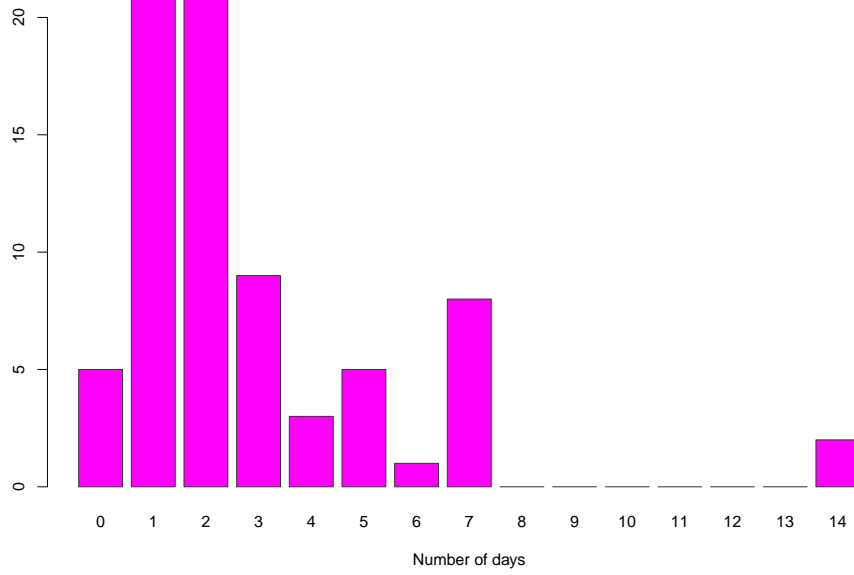
The following summarizes student responses to an anonymous questionnaire completed at the end of each training week.

A. Preparation for APTS

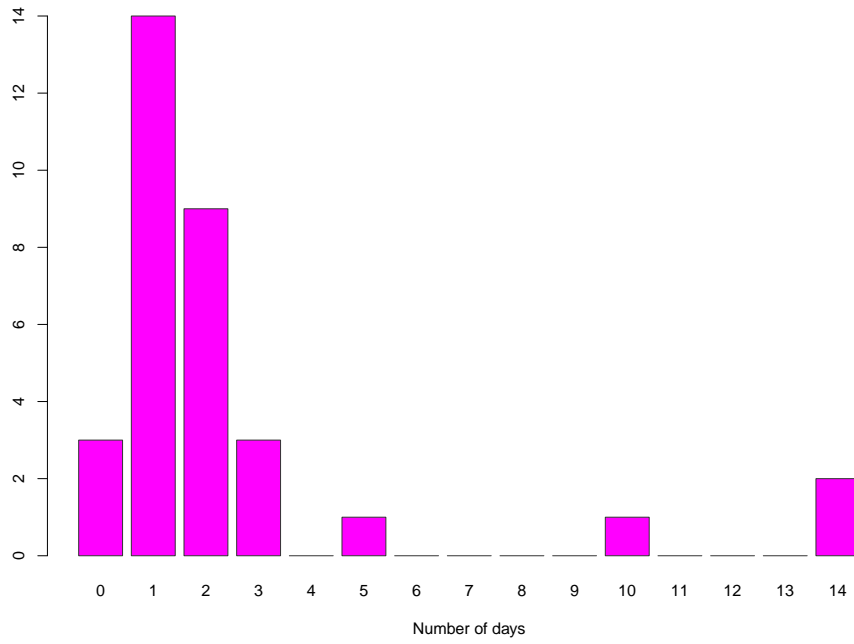
1. Roughly, how many days did you spend on the preliminary material?



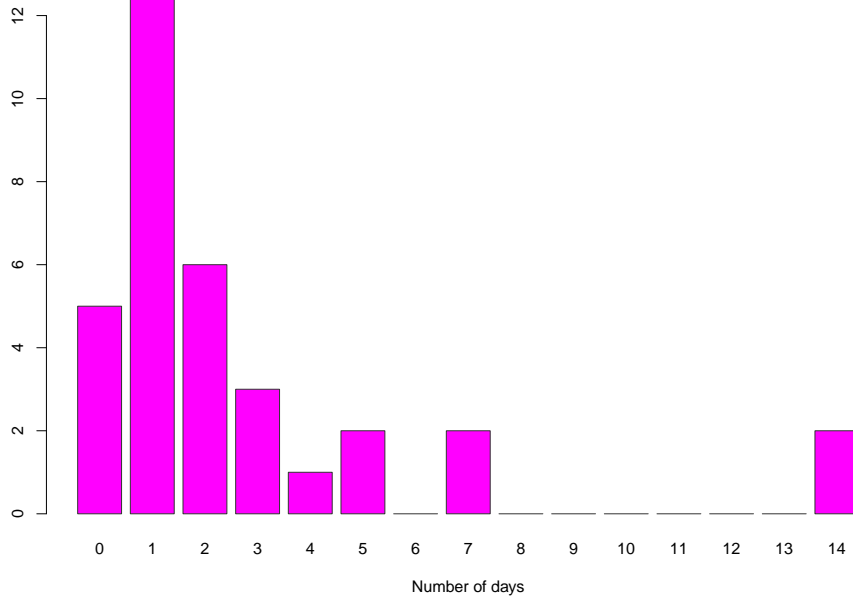
**Histogram of the number of days spent on the preliminary material of
Statistical Inference**



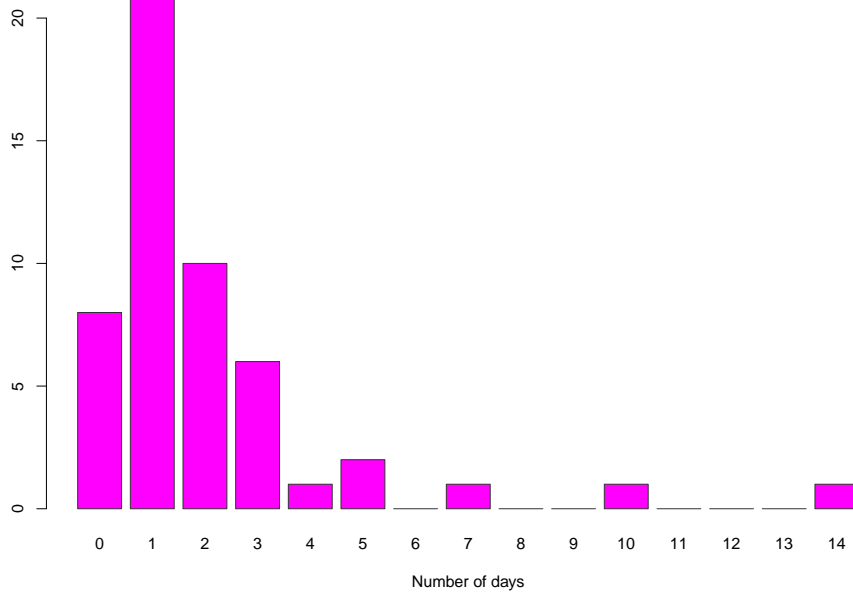
**Histogram of the number of days spent on the preliminary material of
Statistical Modelling**



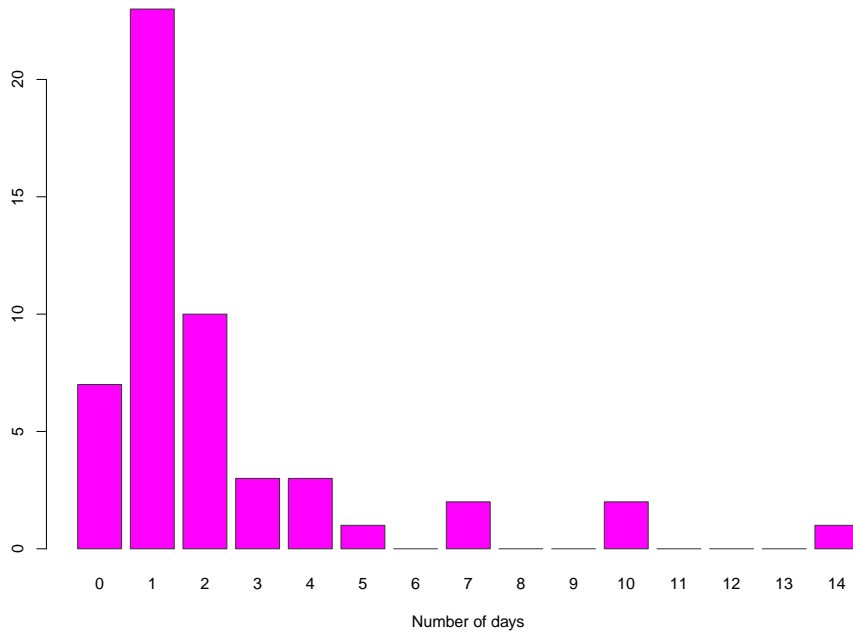
**Histogram of the number of days spent on the preliminary material of
Statistical Asymptotics**



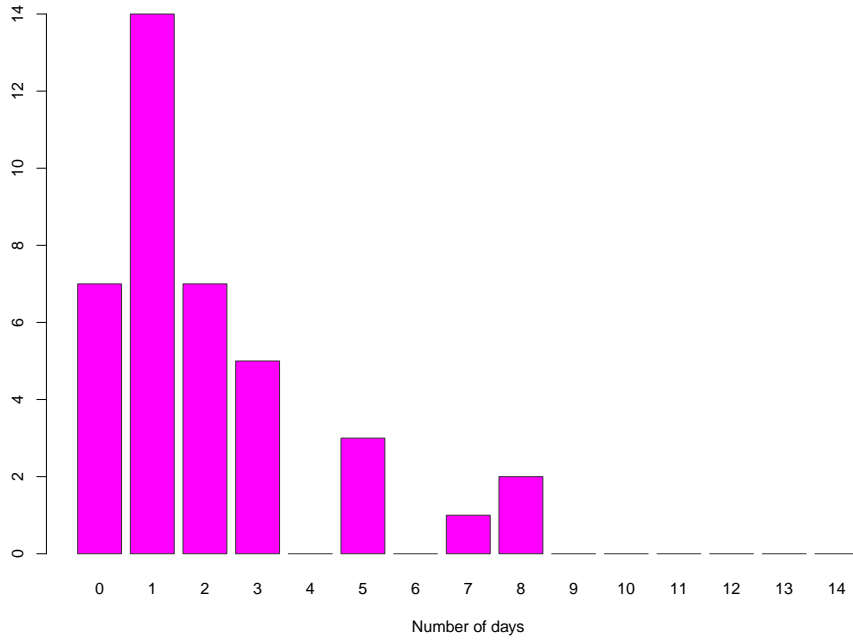
**Histogram of the number of days spent on the preliminary material of
Computer Intensive Statistics**

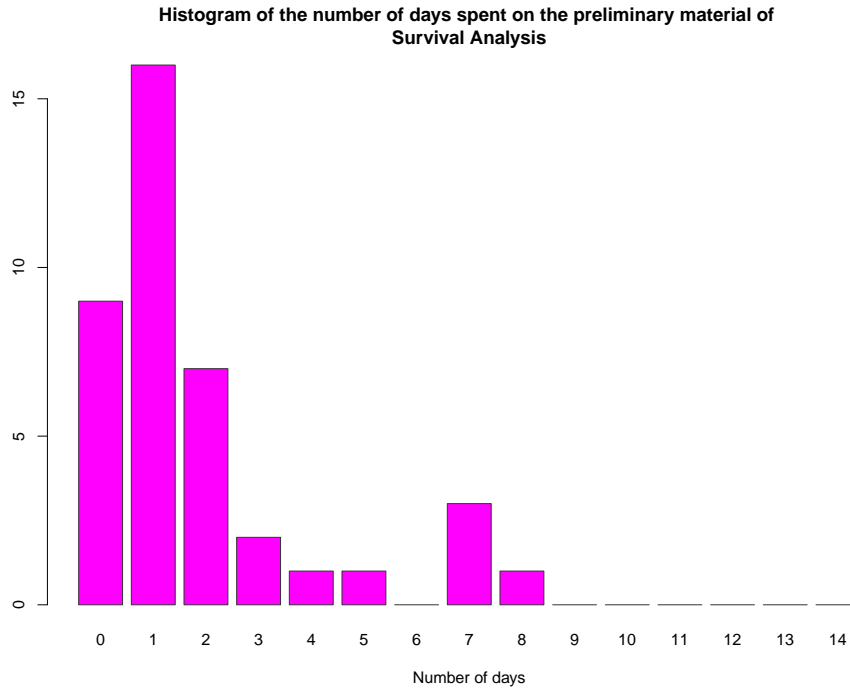


Histogram of the number of days spent on the preliminary material of Applied Stochastic Processes



Histogram of the number of days spent on the preliminary material of Nonparametric Smoothing





2. Did the preliminary material help you to understand the lectures this week?

	Yes	No	Didn't use
Statistical Computing	70	1	7
Statistical Inference	71	1	6
Statistical Asymptotics	23	2	9
Statistical Modelling	26	0	8
Computer Intensive	38	1	12
Stochastic Processes	41	1	10
Nonparametric Smoothing	32	0	8
Survival Analysis	31	0	9

B. The APTS week: material covered

1. How would you rate the level of the module lectures?

	Too easy	Just right	Too hard
Statistical Computing	10	63	6
Statistical Inference	4	61	13
Statistical Asymptotics	0	15	19
Statistical Modelling	2	31	1
Computer Intensive	5	36	9
Stochastic Processes	1	44	7
Nonparametric Smoothing	2	33	6
Survival Analysis	8	27	5

2. Did the Oxford R lectures help you with the computer sessions during the week?

	Yes	No	Didn't use
Week 1	27	1	50
Week 2	6	0	28
Week 3	10	2	40
Week 4	11	1	28

3. Did you find the computer sessions/classes helpful?

	Yes	No	Didn't attend
Statistical Computing	62	12	5
Statistical Modelling	24	9	1
Computer Intensive	35	6	10
Stochastic Process	26	4	21
Nonparametric Smoothing	34	3	3
Survival Analysis	30	5	6

4. Did you bring a laptop to the computer sessions?

	Yes	No
Week 1	71	5
Week 2	28	4
Week 3	39	8

Student costs 2014-15

The following table summarizes the invoices received by APTS sending institutions for the four APTS weeks.

APTS week	Registration fees	Accommodation and food	EPSRC travel allowance
Cambridge	£15,930	£30,135	(£1,003)
Southampton	£13,905	£22,680	(£903)
Warwick	£14,175	£27,445	(£897)
Glasgow	£5,157	£21,240	(£1,002)
TOTAL	£49,167	£101,500	(£3,805)

Note:

Registration fee discounts for students attending all four weeks are all deducted from the final week.

Summary of APTS Alumni Questionnaire Responses (2010/11 Cohort)

1. What best describes your current status?

other (please specify): 4
still studying for PhD: 6
working in academia as statistical scientist: 14
working in academia in another role: 1
working in industry as statistical scientist: 3
working in industry in another role: 2

Of those answering other:

Finished PhD, Jobseeking
Having a break between PhD and work
job hunting
waiting for viva

2. Which of the APTS weeks did you attend in 2010/11? (specify as many as is appropriate)*

Statistical Computing & Statistical Inference: 25
Statistical Modelling & Statistical Asymptotics: 24
Applied Stochastic Processes & Computer Intensive Statistics: 17
Spatial and Longitudinal Data Analysis & Nonparametric Smoothing: 23

3. Which of the APTS modules ended up connected closely to your eventual PhD research? (specify as many as is appropriate)

Applied Stochastic Processes: 1
Computer Intensive Statistics: 5
Nonparametric Smoothing: 7
Spatial and Longitudinal Data Analysis: 10
Statistical Asymptotics: 7
Statistical Computing: 15
Statistical Inference: 11
Statistical Modelling: 12

4. Has the training given by APTS proved helpful to you in your PhD experience and research?

Yes 28 (93%) No 2 (7%)

5. Has the training given by APTS proved helpful to you in your present employment? (answer only if you are not still working for your PhD)

Yes 15 (68%) No 7 (32%)

6. If your answer to either of the previous two questions was yes, which of the following reasons underlie your recommendation? (specify as many as is appropriate)

APTS weeks enable broader contacts with more senior academics: 6
APTS weeks enable networking with peers: 15
The modules provide a broad general training in the area: 22

Further details supplied by those answering other:

7. Which of the APTS modules ended up connected closely to your current employment? (specify as many as is appropriate, answer only if you are not still working for your PhD)

Computer Intensive Statistics: 4
Nonparametric Smoothing: 3
Spatial and Longitudinal Data Analysis: 5
Statistical Asymptotics: 2
Statistical Computing: 8
Statistical Inference: 6
Statistical Modelling: 10

8. Would you recommend APTS to someone just starting a PhD in applied probability or statistics?*

Yes 30 (100%) No 0 (0%)

Additional Notes

1. Current status of those who *would not* recommend APTS:

: NA

2. Current status of those who *did not* find APTS useful for their PhD:

working in academia as statistical scientist: 1
working in industry as statistical scientist: 1

Warwick, November 28, 2014

Registration for APTS

WARWICK


Student registration for APTS academic year 2015-16 will open on Friday 25th September 2015, and **closes on Friday 30th October 2015**. Registration applications made after that date will be kept in a priority-ordered reserve list, in case of any cancellations.

Students can only be registered for APTS weeks by their "sending institution" (i.e., their home department): a list of these institutions appears below.

- If your department wishes to register as a sending institution, then please [click here](#);
- If your department wishes to commit to being a full Member Institution of APTS, then please [click here](#).
(All Member Institutions are automatically "sending institutions".)

If your department is included in the list below, the APTS contact (who must be a member of academic staff employed by that institution) will be provided with a password enabling him/her to complete the [student registration form](#) for 2015-16 APTS weeks. (The student registration form also gives full information on cost.)

The principles and practicalities of student registration and payments include:

- date of application within the registration period is unimportant --- it is not used in determining the allocation of APTS places to students (see the APTS [Constitution](#)  for the list of priorities)
- sending institutions are invoiced by APTS for the registration fee, and for accommodation/meal costs, of their students who are allocated APTS places
- for EPSRC-funded students taking an APTS week away from home, an allowance is made by APTS to the sending institution towards the cost of travel
- in the case of a student taking all four APTS weeks in the same academic year a 20% rebate of registration fees (20% of 4 x £135) is made
- all financial transactions with individual APTS students, including those relating to travel expenses, are handled by the sending institution

Please see the [FAQ](#) and the [Billing and Cancellation policy](#) for more specific information and the [list of prerequisites](#) if you are in any doubt as to whether APTS would be suitable for a particular student.

List of sending institutions

Aston University: Mathematics Group
Brunel University: Department of Mathematics
Cardiff University: School of Mathematics
Durham University: Dept of Mathematical Sciences

APTS contact

David Saad
Dr Silvia Liverani
Anatoly Zhigljavsky
Jochen Einbeck

Government Communications HQ	Jeremy Bradley
Heriot-Watt University: Dept of Actuarial Maths and Statistics	George Streftaris
Imperial College London: Business School	Walter Distaso
King's College London: Department of Biostatistics at the Institute of Psychiatry	Andrew Pickles
Lancaster University: Dept of Maths and Statistics	Kanchan Mukherjee
Lancaster University: School of Health and Medicine	Benjamin Taylor
London School of Hygiene and Tropical Medicine	James Carpenter
Newcastle University: Dept of Mathematics and Statistics	Colin Gillespie
Nottingham Trent University: Department of Mathematics and Statistics	Golnaz Shahtahmassebi
NUI Galway: Dept of Mathematics	John Newell
NUI Maynooth: Dept of Mathematics	Caroline Brophy
Open University: Dept of Mathematics and Statistics	Paul Garthwaite
Trinity College Dublin: Statistics Group	Simon Wilson
Umeå University: Department of Statistics	Dr Magnus Ekström
University College Cork: Statistics Department	David Hawe
University College Dublin: Statistics Group	Brendan Murphy
University College London: Dept of Infection and Population Health	Andrew Copas
University College London: Dept of Statistical Science	Paul Northrop
University College London: Institute of Child Health	Mario Cortina-Borja
University of Aberdeen: Department of Medical Sciences	Ian Stansfield
University of Bath: Dept of Mathematical Sciences	Simon Wood
University of Birmingham: School of Mathematics	Biman Chakraborty
University of Bristol: Dept of Mathematics-Statistics Group	Jonty Rougier
University of Bristol: Dept of Social Medicine	Chris Metcalfe
University of Cambridge: CRI	Simon Tavare
University of Cambridge: MRC Biostatistics Unit	Ian White
University of Cambridge: MRC Human Nutrition Research	Ivonne Solis-Trapala
University of Cambridge: Statistical Laboratory	Rajen Shah
University of East Anglia: School of Computer Science	Elena Kulinskaya
University of Edinburgh: Centre for Population Health Sciences	Chris Weir
University of Edinburgh: Roslin Institute	Mark Bronsvort
University of Edinburgh: School of Mathematics	Natalia Bochkina
University of Essex: Department of Mathematical Sciences	Berthold Lausen
University of Exeter: College of Eng Maths and Phys Sci	Chris Ferro
University of Glasgow: Statistics	Duncan Lee
University of Iceland: Dept of Mathematics	Gunnar Stefansson
University of Kent: IMSAS	Jim Griffin
University of Leeds: Dept of Statistics	Stuart Barber

University of Leeds: Institute of Clinical Trials Research	Sarah Brown
University of Limerick: Dept of Mathematics and Statistics	Peg Hanrahan
University of Liverpool: Department of Biostatistics	Dr Gabriela Czanner
University of Liverpool: Department of Molecular and Clinical Cancer Medicine	Trevor Cox
University of Liverpool: Dept of Mathematical Sciences	Kai Liu
University of Manchester: School of Mathematics	Peter Foster
University of Nottingham: Nottingham Geospatial Institute	Jeremy Morley
University of Nottingham: School of Mathematical Sciences	Chris Brignell
University of Oxford: Dept of Physics	Nick Jones
University of Oxford: Dept of Statistics	Geoff Nicholls
University of Oxford: Wellcome Trust Centre for Human Genetics	Gil McVean
University of Plymouth: School of Computing and Mathematics	Julian Stander
University of Reading: Department of Mathematics and Statistics	Dr Fazil Baksh
University of Salford: Centre for OR and Applied Statistics	Phil Scarf
University of Sheffield: Dept of Probability and Statistics	Tim Heaton
University of Sheffield: School of Health and Related Research	Stephen Walters
University of Southampton: Department of Ocean and Earth Science	Claudie Beaulieu
University of Southampton: School of Mathematics	Robin Mitra
University of Southampton: School of Social Sciences	Peter Smith
University of St Andrews: School of Maths and Statistics	Carl Donovan
University of Surrey: Dept of Mathematics	Janet Godolphin
University of Warwick: Complexity Science DTC	Ben Graham
University of Warwick: Dept of Statistics	Barbel Finkenstadt
University of Warwick: MASDOC DTC	Andreas Dedner
University of Warwick: Medical School	Nigel Stallard
University of Warwick: MOAC Doctoral Training Centre	Dr Hugo van den Berg
University of Warwick: Systems Biology DTC	Vicky Buchanan- Wollaston
University of Wolverhampton: School of Technology	Diwei Zhou
University of York: Centre for Reviews and Dissemination	Mark Simmonds
University of York: Department of Mathematics	Stephen Connor



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Page contact: [Benjamin Graham](#)

Last revised: Mon 14 Sep 2015

Billing and cancellation

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This page gives details of the way in which the accounts of sending institutions will be handled, and of the APTS cancellation policy.

Billing

APTS will maintain an account for each sending institution. Charges made against this account will be:

- registration fee for all students
- cost of the specified accommodation and food requirements

For students who participate in all four APTS weeks in the same academic year, 20% of the total registration fees will be rebated. This is achieved by reducing the registration fee on the final invoice from £135 to £27.

Invoices will be issued to sending institutions **at the end of each APTS week**, for the amounts relating to participation in that APTS week. Registration rebates for students attending all four weeks are made on the invoice for APTS week 4.

Cancellation policy

1. Registration fees are payable for all students accepted for an APTS week, and are not normally refunded in the event of cancellation.
2. In the event of cancellation of a student's participation in an APTS week, the charges made for accommodation and food will be reduced by
 - o **100%** if the cancellation is received **before noon of the Monday six weeks prior to the Monday of APTS week**
 - o **50%** if the cancellation is received after that but **before noon of the Monday four weeks prior to the Monday of APTS week**.

(For an APTS week starting on Tuesday or Wednesday, "the Monday of APTS week" means the preceding Monday.) After four weeks prior to an APTS week, charges relating to that APTS week are not normally refunded.

Notice of any cancellation should be sent (by the APTS Academic Contact for the student's home department, NOT by the student concerned) by email to admin@aps.ac.uk.

[Intranet](#)

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