

Paper for 3. APTS year 17 (2023-2024): Summary report to Executive Committee

Preliminary: some summary counts for all years 2007–2024

Numbers of students who attended at least one APTS week (of which, EPSRC-funded in brackets). Note 2019–20 is the attendance for week 1 only, due to the cancellation of weeks 2–4. The number of participants due to attend weeks 1–4 of 2019–20 was 184:

07–08 (38)	2008–09 88 (37)	2009–10 100 (45)	2010–11 90 (37)	2011–12 128 (46)	2012–13 129 (40)	2013–14 147 (40)	2014–15 149 (42)	2015–16 130 (47)
2016–17 155	2017–18 174	2018–19 176	2019–20 141	2020–21 255	2021–22 216	2022–23 178	2023–24 187	

Number of APTS lecturers to date: 40 (Welcoming Michael Goldstein, Hugo Lo, and Po-Ling Loh)

Number of APTS-week host institutions to date: 11 (remaining at 11 this year).

Member Institutions

In 2023-2024 there were 26 MIs, all located UK and Ireland.

APTS weeks, academic year 2023-2024

Week 1, 11-15 December, 2023, Warwick:

- *Statistical Computing* (Simon Wood)
- *Statistical Inference* (Michael Goldstein)

Week 2, 15-19 April, 2024, Nottingham:

- *Applied Stochastic Processes* (Nicholas Georgiou and Hugo Lo)
- *Statistical Modelling* (Ioannis Kosmidis)

Week 3, 8-12 July, 2024, Durham:

- *Computer Intensive Statistics* (Richard Everitt)
- *High-dimensional Statistics* (Po-Ling Loh)

Week 4, 9-13 September, 2024, Oxford:

- *Statistical Machine Learning* (Louis Aslett)
- *Causal Inference* (Vanessa Didelez and Robin Evans)

Registrations

A total of 188 unique students were registered to attend one or more APTS week in 2023-2024. Numbers of registrations for each of the four weeks were 114, 100, 122, 131, respectively. The corresponding attendance figures were 112, 96, 116, 127, respectively.

Of those 188 students:

- 49 were registered to attend all 4 weeks and 44 students actually did so.
- 150 were first year students in statistics or probability.
- APTS Member Institutions supplied 130 of the 188 applications.

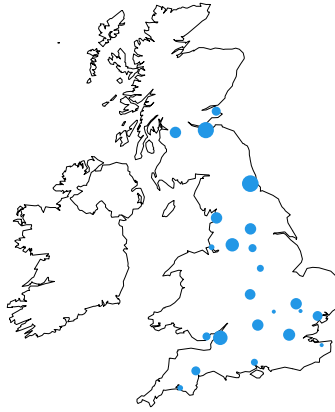


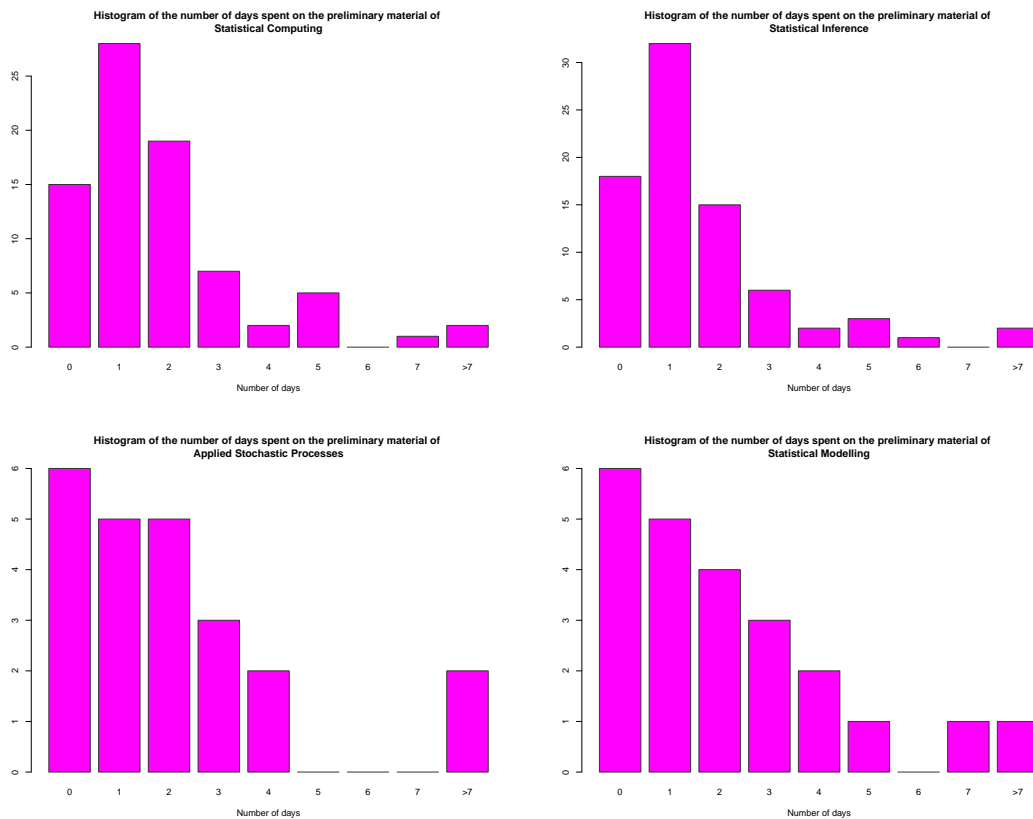
Figure 1: UK 2023-2024 Registrations (from institutions supplying UK postal codes)

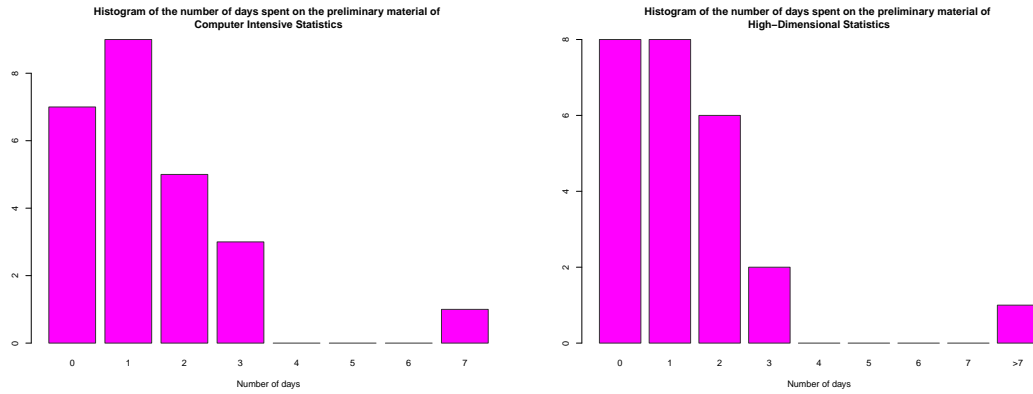
Student feedback

The following summarizes student responses to an anonymous questionnaire completed at the end of the APTS Weeks 1-3 (Online form)

A. Preparation for APTS

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





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

	Yes	No	Didn't use
Statistical Computing	61	5	13
Statistical Inference	53	10	16
Applied Stochastic Processes	16	0	7
Statistical Modelling	16	0	7
Computer Intensive Statistics	19	0	6
High-dimensional Statistics	15	2	8

B. The APTS week: material covered

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

	Too easy	About right	Too hard
Statistical Computing	2	61	16
Statistical Inference	4	61	14
Applied Stochastic Processes	1	17	5
Statistical Modelling	0	22	1
Computer Intensive Statistics	6	19	0
High-dimensional Statistics	1	17	7

2. Did the R foundations online course help you with the computer sessions during the week?

	Yes	No	Didn't use
Week 1	30	5	44
Week 2	12	0	11
Week 3	6	2	17

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

	Yes	No	Didn't attend
Statistical Computing	55	20	4
Statistical Modelling	21	0	2
Computer Intensive Statistics	23	2	0

4. Will you do the module assessments?

	Yes, required to	Yes, though not required	No
Week 1	17	28	34
Week 2	5	5	11
Week 3	7	6	12

Student costs 2023–24

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

APTS week	Registration fees	Accommodation and food
Week1	£19,380	£59,210
Week2	£17,000	£46,000
Week3	£20,740	£37,320
TOTAL	£57,120	£142,530

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

Registration for APTS



Student registration for APTS academic year 2023-24 opens on Friday 22nd September 2023, and **closes on Friday 27th October 2023**. 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 them to complete the [student registration form](#) for 2023-24 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
- 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 £170) 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](#), the [Billing and Cancellation policy](#), and the [Privacy notice](#) 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

Aarhus University: Department of Mathematics
Biomathematics and Statistics Scotland
Canterbury Christ Church University: The Business School
Cardiff University: School of Mathematics
Durham University: Dept of Mathematical Sciences
European Molecular Biology Laboratory: European Bioinformatics Institute
Heriot-Watt University: School of Mathematical and Computer sciences
Keele University: School of Computing and Mathematics
Keele University: School of Medicine
Lancaster University: Department of Management Science
Lancaster University: Dept of Maths and Statistics
Lancaster University: School of Health and Medicine
Lancaster University: STOR-i CDT
London School of Hygiene and Tropical Medicine
Loughborough University: Department of Mathematical Sciences

APTS contact

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Anatoly Zhigljavsky
Tahani Coolen-Maturi
Nick Goldman
George Streftaris
Jie Cheng
Ivonne Solis-Trapala
Matthias Ehrgott
Lloyd Chapman
Benjamin Taylor
Jonathan Tawn
Ruth Keogh
Axel Finke

Loughborough University: School of Business and Economics	Nikos Argyris
Maynooth University: Department of Mathematics and Statistics	Andrew Parnell
Newcastle University: Dept of Mathematics and Statistics	Colin Gillespie
Northumbria University: Department of Mathematics and Information Sciences	Pete Philipson
Nottingham Trent University: Department of Mathematics and Statistics	Golnaz Shahtahmassebi
Open University: Dept of Mathematics and Statistics	Kaustubh Adhikari
Royal College of Surgeons in Ireland: Data Science Center	Fiona Boland
The Francis Crick Institute	Peter Van Loo
The Institute of Cancer Research	Tara Thorneycroft
Trinity College Dublin: Statistics Group	Simon Wilson
University College Cork: School of Mathematical Sciences	Eric Wolsztynski
University College Dublin: Statistics Group	Brendan Murphy
University College London: Dept of Statistical Science	Terry Soo
University of Bath: Dept of Mathematical Sciences	Simon Shaw
University of Birmingham: School of Mathematics	Biman Chakraborty
University of Bologna: Department of Statistical Sciences	Monica Chiogna
University of Bristol: Dept of Mathematics-Statistics Group	Mathieu Gerber
University of Bristol: School of Earth Sciences	Max Werner
University of Bristol: School of Geographical Sciences	Levi John Wolf
University of Cambridge: CRI	John Marioni
University of Cambridge: MRC Biostatistics Unit	Brian Tom
University of Cambridge: Statistical Laboratory	Sergio Bacallado
University of Cape Town: Department of Statistical Sciences	Freedom Gumedze
University of Edinburgh: MRC Institute of Genetics and Molecular Medicine	Catalina Vallejos Meneses
University of Edinburgh: School of Mathematics	Finn Lindgren
University of Essex: School of Mathematics, Statistics and Actuarial Science	Vasileios Giagos
University of Exeter: College of Eng Maths and Phys Sci	Chris Ferro
University of Galway: School of Mathematical and Statistical Sciences	Andrew Simpkin
University of Glasgow: Statistics	Tereza Neocleous
University of Kent: IMSAS	Jian Zhang
University of Leeds: Dept of Statistics	Jan Palczewski
University of Leeds: Institute of Clinical Trials Research	Deborah Stocken
University of Limerick: Dept of Mathematics and Statistics	Peg Hanrahan
University of Liverpool: Department of Biostatistics	Girvan Burnside
University of Liverpool: Dept of Mathematical Sciences	Kamila Zychaluk
University of Manchester: Department of Earth and Environmental Sciences	Olatunji Johnson
University of Manchester: School of Mathematics	Olatunji Johnson
University of Nottingham: School of Mathematical Sciences	Riccardo Corradin
University of Oxford, MRC Weatherall Institute of Molecular Medicine	Valentina Iotchkova
University of Oxford: Department of Computer Science	Jim Davies
University of Oxford: Dept of Statistics	Garrett Morris
University of Oxford: Nuffield Department of Population Health	Thomas Nichols
University of Oxford: Wellcome Trust Centre for Human Genetics	Julian Knight
University of Plymouth: School of Engineering, Computing and Mathematics	Julian Stander
University of Reading: Department of Mathematics and Statistics	Fazil Baksh
University of Reading: Department of Meteorology	Ted Shepherd

University of Sheffield: Health Economics and Decision Science (HEDS)
University of Sheffield: School of Mathematics and Statistics
University of Southampton: School of Mathematics
University of Southampton: School of Social Sciences
University of St Andrews: School of Maths and Statistics
University of Strathclyde: Department of Mathematics and Statistics
University of Surrey: Dept of Mathematics
University of Warwick: Dept of Statistics
University of Warwick: Warwick Medical School
University of Wolverhampton: Statistical Cybermetrics Research Group
University of York: Department of Mathematics

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Billing and cancellation



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 £170 to £34 (in 2023-24).

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
 - **100%** if the cancellation is received **before noon of the Monday six weeks prior to the Monday of APTS week**
 - **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.

3. Occasionally it will be necessary for the named module leader to change following the initial registration period. In the event of a notification of change of module leader, if a cancellation request is made **within six weeks of the notification and prior to the relevant APTS week** then charges for registration, accommodation and food will be reduced by 100%.
4. APTS expects all participants to abide by codes of conduct of the APTS week host institutions (see [APTS week informations](#)) and reserves the unlimited right to cancel any registration without prejudice in the event of violation of said codes of conduct.

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 APTS](#).

Force Majeure

The liability of APTS in the event of a failure or delay in the performance of its obligations under this Contract, if such performance is delayed or hindered by the occurrence of an unforeseeable act or event which is beyond its reasonable control ("Force Majeure Events") shall be limited to the reimbursement of any fees already paid in respect of obligations not performed.

Acts or events constituting Force Majeure Events shall include, but not be limited to Act of God, government intervention, or a change in the law, strikes, industrial dispute, civil unrest, riots, rebellions and wars.

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University of Glasgow: Statistics	Nema Dean
University of Kent: IMSAS	Jian Zhang
University of Leeds: Dept of Statistics	Jan Palczewski
University of Leeds: Institute of Clinical Trials Research	Deborah Stocken
University of Limerick: Dept of Mathematics and Statistics	Patsy Finn
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University of Manchester: School of Mathematics	Olatunji Johnson
University of Nottingham: School of Mathematical Sciences	Theodore Kypraios
University of Oxford, MRC Weatherall Institute of Molecular Medicine	Valentina Lotchkova
University of Oxford: Department of Computer Science	Jim Davies
University of Oxford: Dept of Statistics	Garrett Morris
University of Oxford: Nuffield Department of Population Health	Thomas Nichols
University of Oxford: Wellcome Trust Centre for Human Genetics	Julian Knight
University of Plymouth: School of Engineering, Computing and Mathematics	Julian Stander
University of Reading: Department of Mathematics and Statistics	Fazil Baksh

University of Reading: Department of Meteorology
University of Sheffield: Health Economics and Decision Science (HEDS)
University of Sheffield: School of Mathematics and Statistics
University of Southampton: School of Mathematics
University of Southampton: School of Social Sciences
University of St Andrews: School of Maths and Statistics
University of Strathclyde: Department of Mathematics and Statistics
University of Surrey: Dept of Mathematics
University of Warwick: Dept of Statistics
University of Warwick: Warwick Medical School
University of Wolverhampton: Statistical Cybermetrics Research Group
University of York: Department of Mathematics

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