

Welcome to *Nature Masterclasses* All our courses: *masterclasses.nature.com*



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Agenda

- 1 What is *Nature Masterclasses*?
- 2 Courses
- 3 Getting started
- 4 How to use the course platform
- 5 Additional features
- 6 Q&A

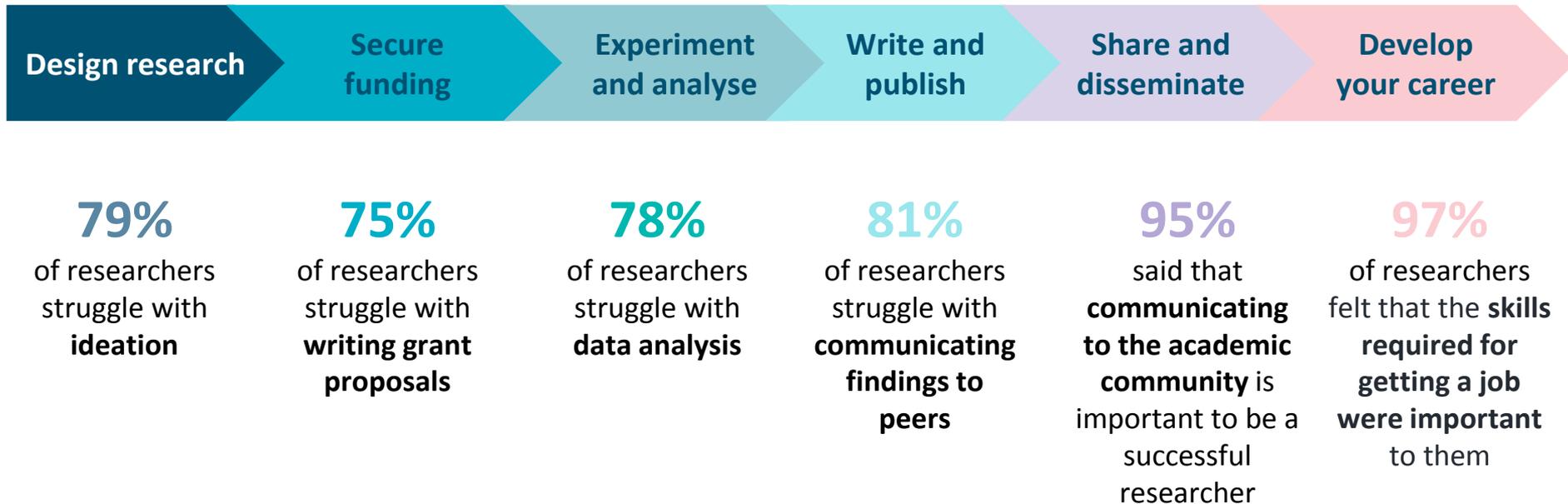
What is *Nature Masterclasses*?

1.0

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What stages of the research cycle do you find most challenging?



Data from *Nature Masterclasses* global surveys conducted in 2021 and 2022 to understand researcher needs.

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The origins of Nature Masterclasses



What do Nature editors look for?

Also:

- Strong logical support for conclusions
- Mechanistic insight
- Will inspire further research

And for certain types of paper:

- Significant resource value
- Significant technical breakthrough



Face-to-face workshops established in 2011

Online course
published 2015



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Presenters

Delivered by
experts

- Nature Research journal editors
- Leading researchers (academia and industry)
- Funders



Magdalena Skipper
Editor in Chief, *Nature*,
Springer Nature



Michael Dahlstrom
Director, Greenlee
School of Journalism
and Communication,
Iowa State University



David Rueda
Professor and Chair
of Molecular and
Cellular Medicine,
Imperial College
London



Paola Quattroni
Alliance Delivery
Manager, Health Data
Research UK



Helen Pearson
Chief Magazine
Editor, *Nature*,
Springer Nature



Andrea Taroni
Chief Editor,
Nature Physics,
Springer Nature

Nature Masterclasses Online Training Platform



Expert training

Best-in-class, on-demand elearning courses drawing on the expertise of *Nature Portfolio* journal Editors and leading international experts from academia and industry



Tailored to researchers

Our courses are designed and developed using a data-driven approach to understand and fulfill researchers' specific needs



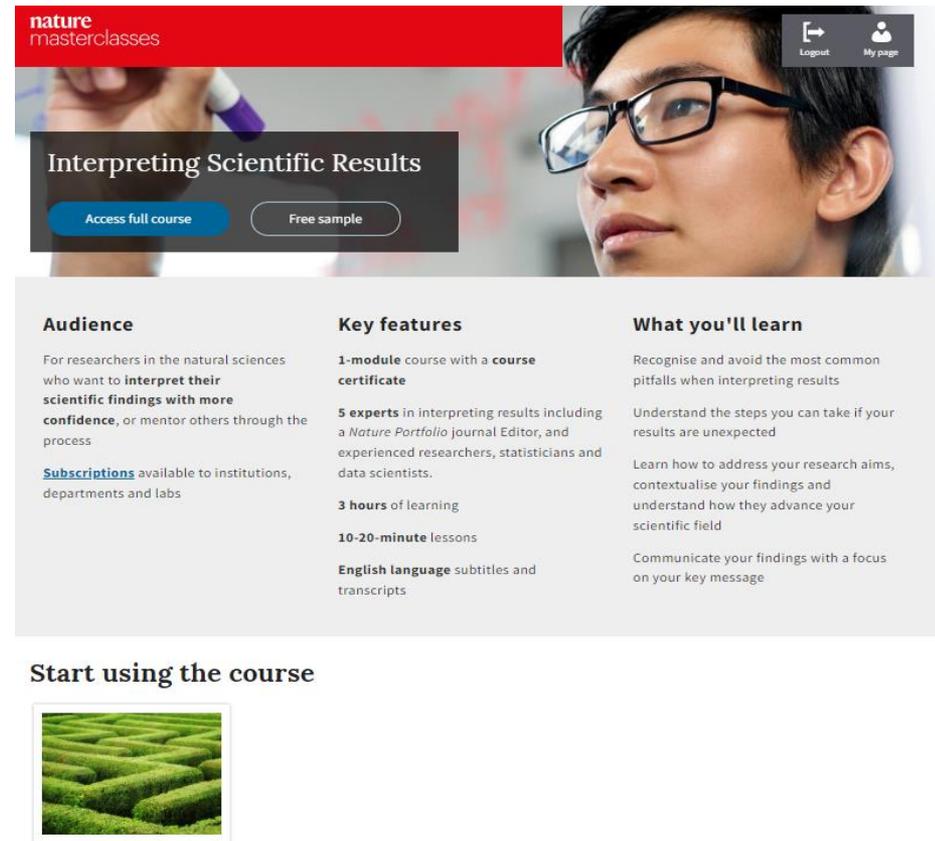
Designed for busy researchers

To accommodate researchers' busy schedule, our training is self-paced, bite-sized and in a dip in and out format, so they don't have to study the course in one go

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How does your subscription work?

- Nature Masterclasses online gives you full access to all existing online courses and instant access to new courses.
- 13 courses by the end of 2022 – more details next up.
- Your institution's access method is **IP range** – more details on this later.



The screenshot shows the Nature Masterclasses website interface. At the top, there is a red header with the 'nature masterclasses' logo. Below the header, a navigation bar includes 'Logout' and 'My page' links. The main content area features a large image of a person wearing glasses, with a dark overlay containing the course title 'Interpreting Scientific Results' and two buttons: 'Access full course' and 'Free sample'.

Audience
For researchers in the natural sciences who want to **interpret their scientific findings with more confidence**, or mentor others through the process
[Subscriptions](#) available to institutions, departments and labs

Key features
1-module course with a **course certificate**
5 experts in interpreting results including a *Nature Portfolio* journal Editor, and experienced researchers, statisticians and data scientists.
3 hours of learning
10-20-minute lessons
English language subtitles and transcripts

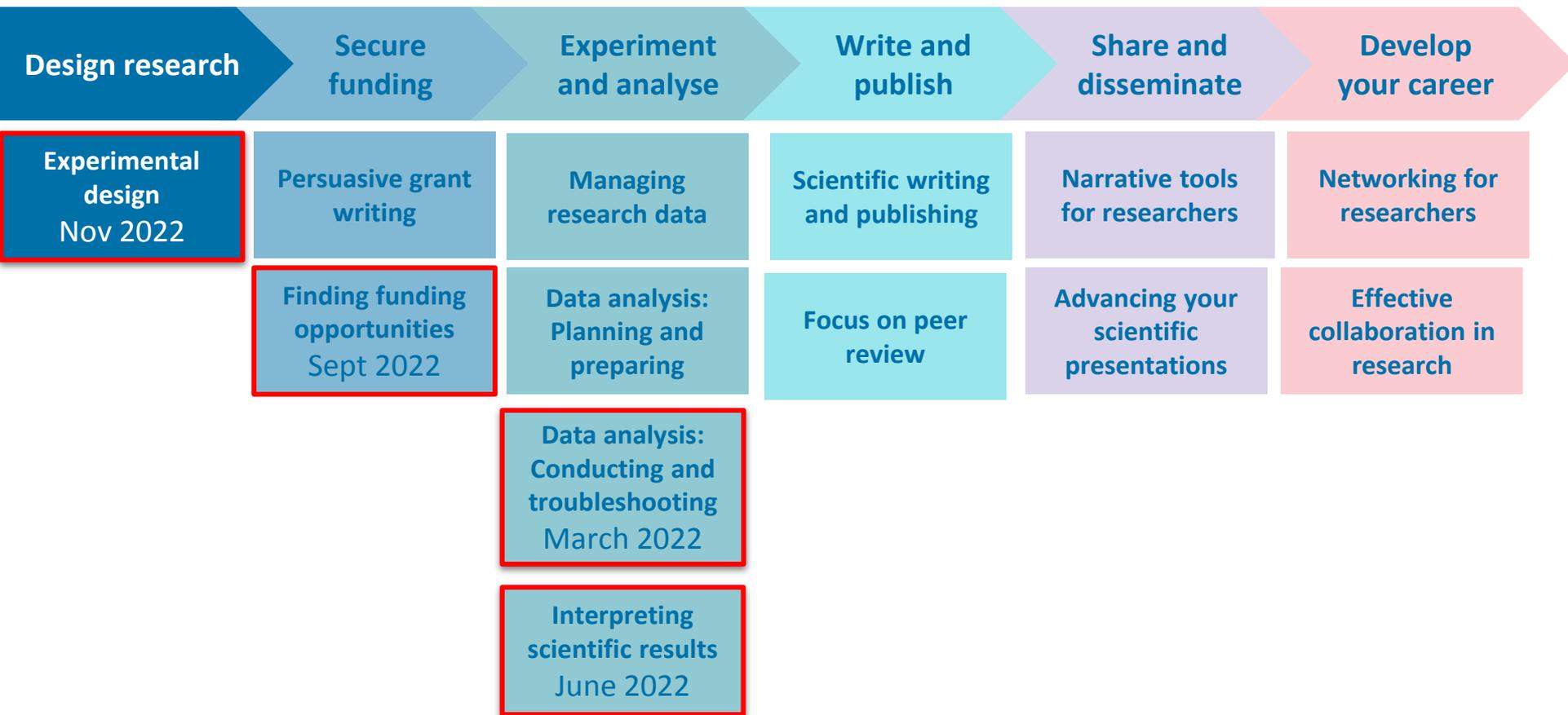
What you'll learn
Recognise and avoid the most common pitfalls when interpreting results
Understand the steps you can take if your results are unexpected
Learn how to address your research aims, contextualise your findings and understand how they advance your scientific field
Communicate your findings with a focus on your key message

Start using the course



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Full catalogue of courses available at the end of 2022



Nature Masterclasses Online - Courses

2.0

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Scientific Writing and Publishing

1

Audience

For students and researchers in the natural sciences who are new to publishing or wish to refresh their skills

Learning objectives

- Develop writing skills and confidence writing for journals
- Understand editorial processes and what editors look for
- Learn best practices for submitting a paper and peer review

Parts

1. Writing a Research Paper
2. Publishing a Research Paper
3. Writing and Publishing a Review Paper

Focus on Peer Review

2

Audience

For students and researchers in the natural science who are new to peer review or wish to refresh their skills

Learning objectives

- Understand the importance and responsibilities of peer reviewers
- Learn how to prepare a peer review report
- Discuss ethics and innovations in peer review

Parts

1. Focus on Peer Review

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Effective Collaboration in Research

3

Audience

For researchers in the natural sciences who wish to participate in or set up and lead collaborative projects

Learning objectives

- Understand the different forms, benefits, and challenges of collaborative research
- Develop key collaborative skills such as communication and teamwork
- Learn how to initiate and run a successful collaboration
- Learn how to maximize the value of, and conclude, a collaborative project

Parts

1. Introducing collaboration
2. Participating in a collaboration
3. Leading a collaboration

Networking for Researchers

4

Content

Participants will explore how to approach people in a physical environment as well as online, how to maintain and strengthen relationships and how to use them to further develop their careers.

Learning objectives

- Examine different purposes, challenges and opportunities related to building your network
- Prepare key resources to help you build an effective network
- Apply strategies to approach and connect with potential network contacts, both in-person and online
- Examine strategies for leveraging your network in order to advance your research or career

Module titles

1. Welcome to the course
2. Getting ready to network
3. Approach and connect with peers (in person and online)
4. Nurturing and harnessing the power of your network

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Managing Research Data

5

Audience

For researchers in the natural sciences who want to develop their data management skills or mentor others through the process

Learning objectives

- Understand the benefits of managing research data effectively
- Understand the benefits of managing research data effectively
- Learn how to apply best practices to organise, store, archive and check the quality of your data
- Evaluate the different options for sharing research data

Modules

1. Welcome and introduction
2. Creating and maintaining your data management plan
3. Managing data in the short and long term
4. Sharing your data

Interpreting Scientific Results

6

Content

The course was developed in collaboration with 5 experts in interpreting results including a Nature Portfolio journal Editor, and experienced researchers, statisticians and data scientists.

Learning objectives

- Recognise and avoid the most common pitfalls when interpreting results
- Understand the steps you can take if your results are unexpected
- Learn how to address your research aims, contextualise your findings and understand how they advance your scientific field
- Communicate your findings with a focus on your key message

Module title

1. Interpreting Scientific Results

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Narrative Tools for Researchers

7

Audience

For researchers in the natural sciences who want to enhance their communication to their peers by using narrative tools to tell their research story

Learning objectives

- Understand the benefits of using narrative tools to communicate your research more effectively to scientific peers and stakeholders
- Learn how to create and combine narrative elements to build a compelling scientific story
- Learn how to refine your research story depending on the audience and format for your communication

Parts

1. Why use a story?
2. Building your story
3. Refining your story

Advancing your Scientific Presentations

8

Content

Participants will explore how to create a story, how to decide on what to include and how to understand their audiences when effectively communicating their research in oral presentations - face to face or virtually - using innovative and visually appealing presentation styles.

Learning objectives

- Explore techniques to overcome challenges linked to creating and delivering oral presentations
- Build compelling research stories to underpin presentations that effectively communicate your message to your audience
- Plan and develop slide decks to effectively communicate your research story to your audience (face-to-face or virtual)
- Apply strategies to help you deliver both face-to-face and virtual presentations effectively on the day

Module titles

1. Overcoming your research presentation challenges
2. Developing your story
3. Building an engaging slide deck
4. Preparing and navigating your talk

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Data Analysis: Planning and Preparing

9

Content

Participants will explore practical steps to plan and prepare for effective data analysis.

Learning objectives

- Examine the benefits and challenges of planning your data analysis, and understand the principles of creating a data analysis plan.
- Prepare to analyse your data using best practice principles and processes

Module titles

1. Introduction to Data Analysis
2. Preparing your data for data analysis

10

Content

The course was developed in collaboration with 10 experts in data analysis including experienced statisticians and data scientists, journal editors and early career researchers.

Learning objectives

- Understand the importance of conducting effective data analysis
- Identify the best tools for exploring various datasets
- Identify the range of analytic methods available and understand which is most suited to your data
- Learn strategies for obtaining feedback, troubleshooting and expressing the limitations of your analysis

Module titles

1. Introduction to data analysis
2. Exploring your data and reviewing your analysis plan
3. Analysing your data

Persuasive Grant Writing

11

Content

Participants will learn to identify the requirements and objectives of chosen grants and apply storytelling techniques to increase the overall quality of the written part of their grant application.

Learning objectives

- Articulate how narrative tools can improve the quality of your grant applications
- Plan how to align your grant application with the requirements and objectives of its audience – your chosen funder
- Apply narrative tools when writing your grant application to make it more informative and persuasive

Module titles

1. Before starting your grant application
2. Targeting your audience
3. Creating a narrative

New Courses

2.0

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natureresearch

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Why those four topics?

Data analysis: Conducting and troubleshooting

- Data is at the heart of research
- Data analysis is a cornerstone of scientific research

Crucial skill
for **92%**

Almost 80%
struggle and
need training

Only 30% are
satisfied with
training

Interpreting scientific results

- Sense of security from knowing the findings are robust and can be confidently shared with their peers
- Risk to career and reputation if findings misinterpreted

Crucial skill
for **almost
90%**

Almost 80%
struggle and
need training

Only 30% are
satisfied with
training

Finding funding opportunities

- Writing applications is time consuming
- Success rate of applications is less than 25% in many major funding bodies around the globe

Crucial skill
for **91%**

82% struggle
and need
training

Only 30% are
satisfied with
training

Experimental design

- Thorough experimental design is highly complex
- Poor experimental design can waste time, resources and damage reputation

Crucial skill
for **almost
90%**

Almost 70%
struggle and
need training

Only 24% are
satisfied with
training

Getting started

3.0

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How to register

Course access via your institution's IP range

- The **first time you register and/or log in**, make sure you are **connected to your institution's internet** and are within the registered IP range(s)
- If you are off-campus, make sure you are connected to your institution's network **remotely**

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How to register

Visit <https://masterclasses.nature.com>

Select **Register**



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How to register

On the Registration page, click 'Your institution' and select your institution from the drop-down menu

Registration

Please type only in English and Latin characters as this form is unable to accept other character types.

* denotes mandatory fields

* Your institution

Filter list by institution name

No affiliation / other institution		
AdventHealth Orlando	Kobe University	The Christie Hospital
Aga Khan University	Laboratory of Instrumentation and Experimental Particles Physics	The University of Texas at Austin
AGH University of Science and Technology	Leibniz Centre for Tropical Marine Research	Tokyo University of the Arts
Aichi Medical University		TriLink BioTechnologies (United States)

* email address

* First name

* Last name

* Job Title

- please select -

How to register

- Create your preferred password and confirm it
- Complete your profile

MENU ▾ nature masterclasses

Register Login

Registration

Please type only in English and Latin characters as this form is unable to accept other character types.

* denotes mandatory fields

* Your institution

* Create a password

* email address

* First name

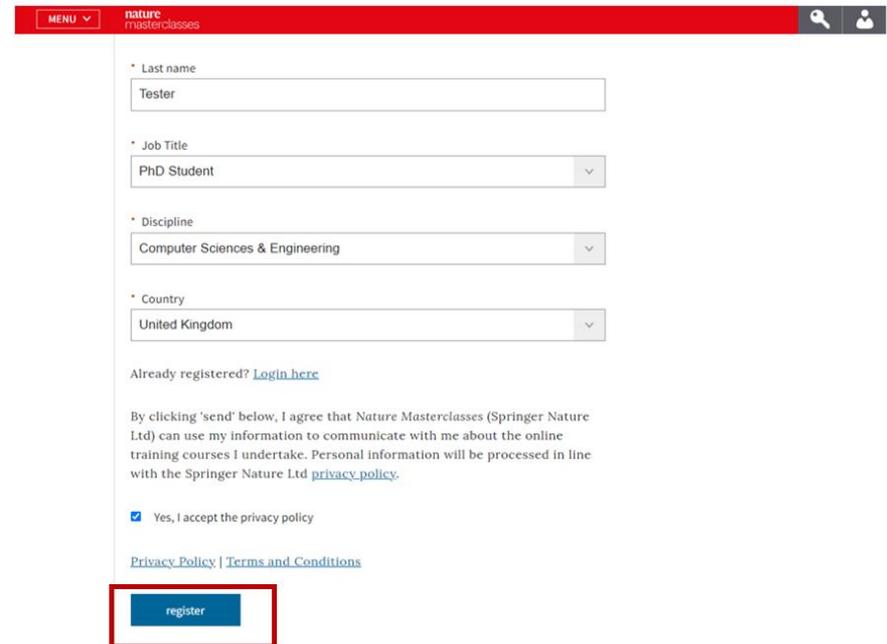
* Last name

* Job Title

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How to register

- Read and accept our ‘Privacy Policy’
- Click the “Register” button



The screenshot shows the registration form for Nature Masterclasses. The form is titled 'nature masterclasses' and includes a 'MENU' dropdown. The form fields are:

- * Last name: Text input field containing 'Tester'.
- * Job Title: Dropdown menu with 'PhD Student' selected.
- * Discipline: Dropdown menu with 'Computer Sciences & Engineering' selected.
- * Country: Dropdown menu with 'United Kingdom' selected.

Below the form fields, there is a link: 'Already registered? [Login here](#)'.

Below the link, there is a paragraph: 'By clicking 'send' below, I agree that Nature Masterclasses (Springer Nature Ltd) can use my information to communicate with me about the online training courses I undertake. Personal information will be processed in line with the Springer Nature Ltd [privacy policy](#).'

Below the paragraph, there is a checkbox: Yes, I accept the privacy policy.

Below the checkbox, there is a link: [Privacy Policy](#) | [Terms and Conditions](#).

At the bottom of the form, there is a blue button labeled 'register', which is highlighted with a red box.

How to register

- Check your mail box for a confirmation email from Nature Masterclasses

MENU nature masterclasses

✓ If you are a registered user, we will send you an email to activate your account.

Almost there - please check your inbox.

We need to make sure that the email address you provided belongs to you.

To confirm your email address you need to:

1. Find our confirmation email in your inbox.
2. Click the link in the confirmation email.

Didn't get a confirmation email?

Please also check your spam, junk or "unwanted" folder.

Didn't find our confirmation email?

Have the message sent to you again.

Please note: the message will be sent to the email address you provided when registering.

I'm not a robot  reCAPTCHA
Privacy - Terms

We collect and use your personal data to facilitate your request. We won't contact you for anything unrelated to this request. Further information can be found in our Privacy Policy Page (see the link in the footer of this page).

[Resend Email](#)

Can't access the email address you provided?

If you can no longer access the e-mail address that is stored in our system, please contact our customer service.

Are you stuck?

Please contact our customer service, we will be happy to help you. Customer Service.

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How to register

- Open the confirmation email from Nature Masterclasses and click the verification link

Your request to set your email address



○ noreply@example.com <noreply@example.com>

To: ○ email1@idpdomain.com

Dear email1@idpdomain.com,

Please click on the following link to verify your email address.

[Verify your email address](#)

If the link does not work, please copy following link into your browser <http://naturemasterclasses-preview.springer-sbm.com:9000/myprofile-email/change/62c852501b00000287c6d5a3>

Kind regards,
Your Customer Service Center

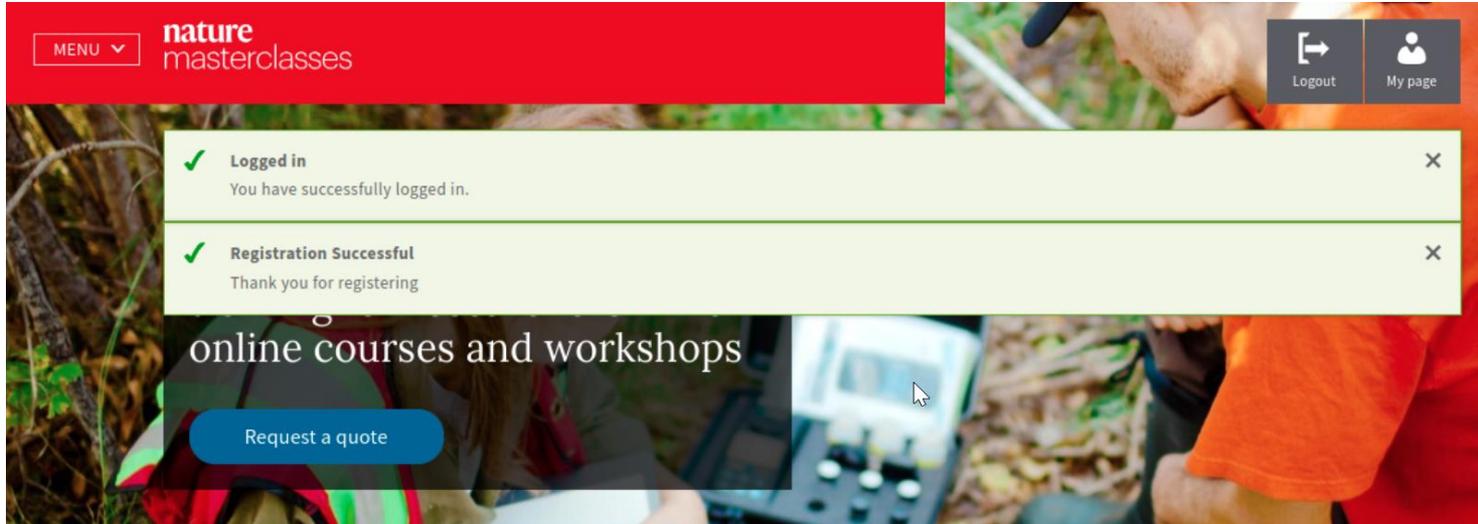
Nature Masterclasses is provided by Nature Research, part of Springer Nature

Nature Research
4 Crinan Street
London
N1 9XW
UK
E: onlineservice@springernature.com

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How to register

Once you have clicked “Confirm registration now”, you will be re-directed to the *Nature Masterclasses* site. This is your registration completed



Your course access: after registration

After registration, the website will remember your connection to your institution's internet for **6 months**

This will enable you to access the content with ***any* internet connection for 6 months** — useful when you're off-campus

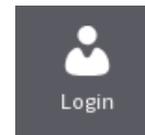
If you have been off campus or haven't used your organisation VPN for over 6 months after your initial registration, you will need to log in to Nature Masterclasses from within your institution's network to refresh your connection details

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Sign in for future visits

Go to <https://masterclasses.nature.com>

Click **Login**



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Professional development training for researchers — via workshops and online courses

Request a quote About us

Register Login

Sign in for future visits

Go to <https://masterclasses.nature.com>. Select **Login**

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Register

Log in to access our online courses for researchers

Regular login
If you have registered on this site.

Email address
Enter your email address

Password
Enter your password

[Forgot your password?](#)

Remember Me

Login

Institutional login (single sign on)
If your institution provides access to Nature Masterclasses via its own login system.

Select your institution

How to use the course platform

4.0

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How to enter the courses

Select the menu icon, and then click on the course name



Online Courses

- Scientific Writing and Publishing
- Effective Collaboration in Research
- Focus on Peer Review
- Managing Research Data to Unlock its Full Potential
- Narrative Tools for Researchers
- Persuasive Grant Writing
- Networking for Researchers
- Advancing Your Scientific Presentations
- Data Analysis: Planning and Preparing
- Data Analysis: Conducting and Troubleshooting

Training Events

- Workshops

About

- About us
- Our experts
- Blog
- Case studies

Support

- Help
- Buy training for your Institution
- Promotional resources
- Additional services
- Nature Masterclasses Platform

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How to enter the courses

Homepage – scroll down the page to the list of courses

Online courses



Data Analysis: Conducting and Troubleshooting

Learn how to conduct and troubleshoot for effective data analysis

Subscriptions available to institutions | Free sample available



Data Analysis: Planning and Preparing

Learn how to plan and prepare for effective data analysis

Subscriptions available to institutions | Free sample available



Advancing Your Scientific Presentations

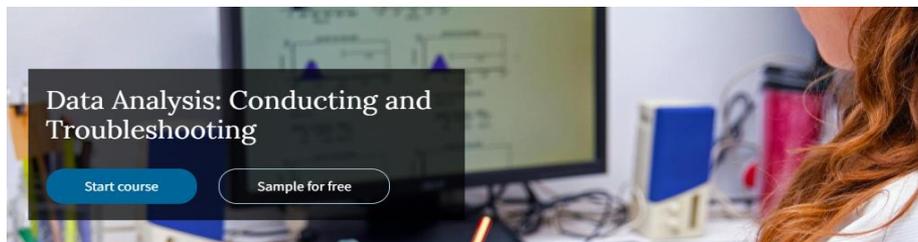
Learn to plan and deliver engaging presentations

Subscriptions available to institutions | Free sample available

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How to enter the courses

Each course homepage lists the key features, modules and experts

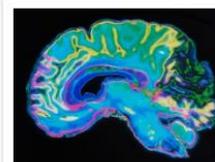


Data Analysis: Conducting and Troubleshooting

[Start course](#) [Sample for free](#)

<p>Audience</p> <p>For researchers in the natural sciences who want to develop their data analysis skills or mentor others through the process</p> <p>Subscriptions available to institutions, departments and labs</p>	<p>Key features</p> <p>3-module course with a course certificate</p> <p>10 experts in data analysis including experienced statisticians and data scientists, journal editors and early career researchers</p> <p>4-5 hours of learning</p> <p>10-20-minute lessons</p> <p>English language subtitles and transcripts</p>	<p>Skills</p> <p>Understand the importance of conducting effective data analysis</p> <p>Identify the best tools for exploring various datasets</p> <p>Identify the range of analytic methods available and understand which is most suited to your data</p> <p>Learn strategies for obtaining feedback, troubleshooting and expressing the limitations of your analysis</p>
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Start using the three-module course



Introduction to data analysis



Exploring your data and reviewing your analysis plan



Analysing your data

Insight from expert academics and professionals

This course contains insights from data analysis experts, including

- Data-rich fields including physics, medicine, ecology, and epidemiology
- Data science and biostatistics
- Editorial perspectives on common mistakes and good practice in data analysis

This course was developed and refined by an expert panel, comprising

- **Mark Gardener** | Ecologist, lecturer, data consultant and author specialising in data analysis
- **João Monteiro** | Chief Editor of Nature Medicine
- **Bhramar Mukherjee** | Professor and Chair of biostatistics, University of Michigan, USA
- **Xavier Vilasis-Cardona** | Director of Doctoral Studies and Professor, Department of Engineering, Universitat Ramon Llull, Spain
- **Bronwyn Wake** | Chief Editor of Nature Climate Change

The course also has additional insights through video interviews from:

- **Marc Amoyel** | Senior Research Fellow, Cell and Developmental Biology, University College London
- **Vivian Biancardi Rossato** | Postdoctoral Fellow, Department of Physiology, University of Alberta
- **Claudia Bonfio** | Junior Group Leader, Institut de Science et d'Ingénierie Supramoléculaires (ISIS), University of Strasbourg, France
- **Alex Dexter** | Higher Research Scientist, National Physical Laboratory, UK
- **Isabella Muratore** | PhD candidate, Department of Biology, University of Boston



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Ways of using the courses

- 1) Logical progression from start to finish;
- 2) Use the modules that relate to where you currently are in the research life cycle.

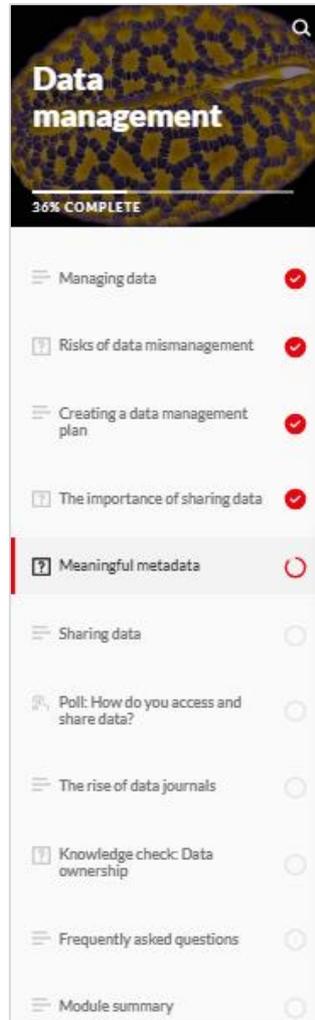
It's your resource! Find a way to use it that works for you.

Dip into videos that look interesting, read content created by editors whose style you like, or who work in your field, and undertake activities that will challenge you.

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Course content

- Lessons contain videos, posts and activities
- Progress indicators show you the lessons you've completed



Data management
36% COMPLETE

- Managing data ✓
- Risks of data mismanagement ✓
- Creating a data management plan ✓
- The importance of sharing data ✓
- Meaningful metadata ◐
- Sharing data ○
- Poll: How do you access and share data? ○
- The rise of data journals ○
- Knowledge check: Data ownership ○
- Frequently asked questions ○
- Module summary ○

Knowledge check: Useful data layout

What are the problems with the data and associated metadata presented here? Select the six correct answers from the list of options.

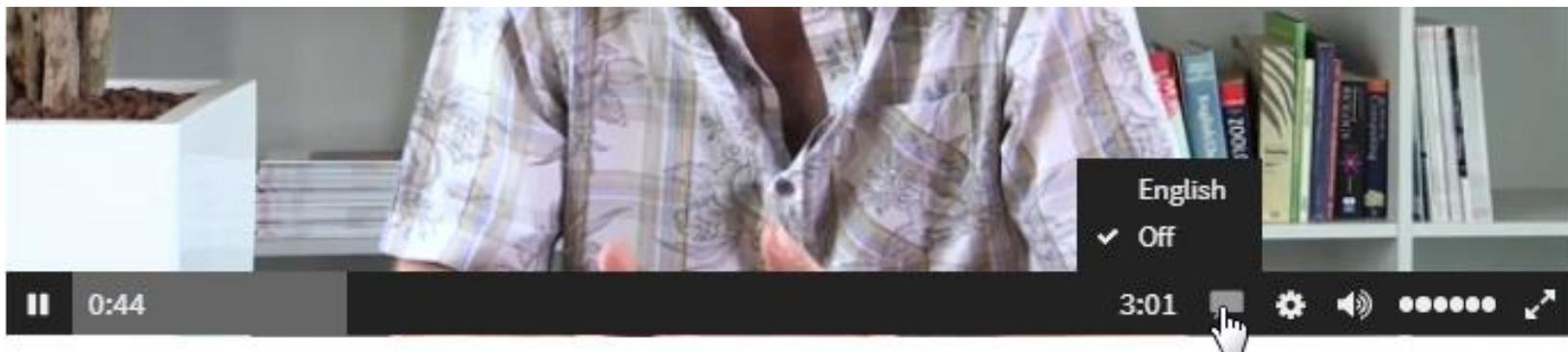
S1 Sh.cuo – Amiga Sheets				
	A	B	C	D
1	Means	Ct	T	
2		Day 0		
3	Sodium	139	142	
4	Potassium	3.3	4.8	
5	Chloride	100	108	
6	BUN	18	18	
7	Creatine	1.2	1.2	
8	Uric acid	5.5*	6.2*	

- Obscure file type 'cuo'
- Lack of units
- More than one piece of data per cell
- Unclear formatting
- Abbreviated headers

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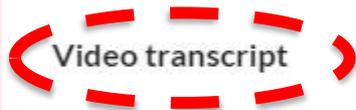
Captions and transcripts on videos

To turn on English subtitles on videos, select the dialogue box icon



Captions and transcripts on videos

English transcripts are located underneath videos:



Publication is really important to a scientist, because it's the way that you get to tell the world what you've done, and what you think it means. If you spent your entire time in your lab doing research, getting lovely data, having very clever ideas about what it means, but never told anyone, you'd be completely wasting your time. Science exists, it progresses, by one set of work being built upon somebody else's, so it's really important that you communicate your science.

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Account settings

In your **My page** you can:

- Edit your personal data
- View your dashboard

The screenshot shows the top navigation bar with the Nature Masterclasses logo and the text 'a natureresearch service'. Below the navigation bar, the page title 'Profile data and settings' is displayed. A list of links is shown:

- My profile
- My dashboard

The screenshot shows the account settings page with the following sections:

- Personal data** (with an 'Edit' button):
 - First name
 - Last name
 - Country
- My email** (with an 'Email' field):
 - Email
- Occupational data** (with an 'Edit' button):
 - Field of Study
 - Job Title
 - Educational Institution

The top navigation bar includes the Nature Masterclasses logo and the text 'a natureresearch service'. On the right side of the navigation bar, there are links for 'Logout' and 'My page'.

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Track your progress

The screenshot displays the 'Courses in progress' section of the Nature Masterclasses website. At the top left, there is a red navigation bar with the 'nature MASTERCLASSES' logo and a 'MENU' dropdown. On the top right, there are two buttons: 'Logout' (with a right-pointing arrow icon) and 'My page' (with a person icon). Below the navigation bar, the 'Courses in progress' section lists five courses, each with a progress indicator (a donut chart) and a 'Continue' button. The first course, 'Part 1: Writing a research paper', is 33.3% complete. The other four courses are 0% complete.

Course Title	Start Date	Completed Modules	Progress (%)
Part 1: Writing a research paper	01-05-2019	2 of 6	33.3%
Part 2: Publishing a research paper	01-05-2019	0 of 8	0%
Part 3: Writing and publishing a review paper	01-05-2019	0 of 1	0%
Focus on Peer Review	01-05-2019	0 of 4	0%
Scientific Writing and Publishing Sample Module	01-05-2019	0 of 1	0%



- My profile
- My dashboard

Track your progress

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MENU **nature**
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Logout My page

COURSE

Part 2: Publishing a research paper

Scientific Writing and Publishing

8 Modules Duration: 5h30

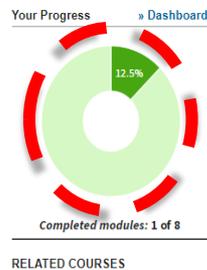
Part 2 of the Scientific Writing and Publishing course focuses on how to submit your research paper and gives a comprehensive overview of the editorial and publishing process.

What you'll learn

- What makes a great review paper
- How to plan, structure and write a review – and create a clear and compelling story supported by relevant citations
- How to referee a review paper

RELATED COURSES

Your course progress will also be visible on the **course part page**



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My dashboard

- Shows progress within modules
- Certificate unlocked after completing 100% of the course

Courses in progress



Started | 01-05-2019

Scientific Writing and Publishing Sample Module

Completed modules: 0 of 1

Continue

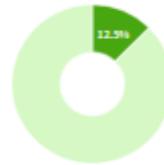


Started | 01-05-2019

Part 3: Writing and publishing a review paper

Completed modules: 0 of 1

Continue



Started | 01-05-2019

Part 2: Publishing a research paper

Completed modules: 1 of 8

Continue



Started | 01-05-2019

Focus on Peer Review

Completed modules: 0 of 4

Continue

Courses completed



Completed

Part 1: Writing a research paper

Completed

Finished on: 11-06-2019

Certificates

Part 1: Writing a research paper

Finished on: 11-06-2019

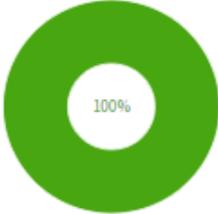
Download

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Certificates

Download certificates from the
course part overview page

Your Progress » Dashboard



100%

Completed modules: 6 of 6

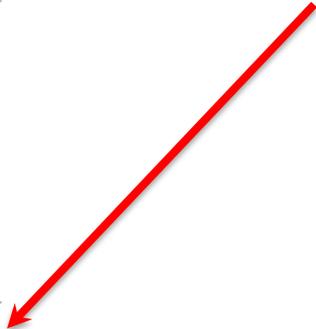
DOWNLOADS

Certificate 

RELATED COURSES

Part 2: Publishing a research paper

Part 3: Writing and publishing a review paper



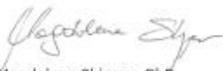
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