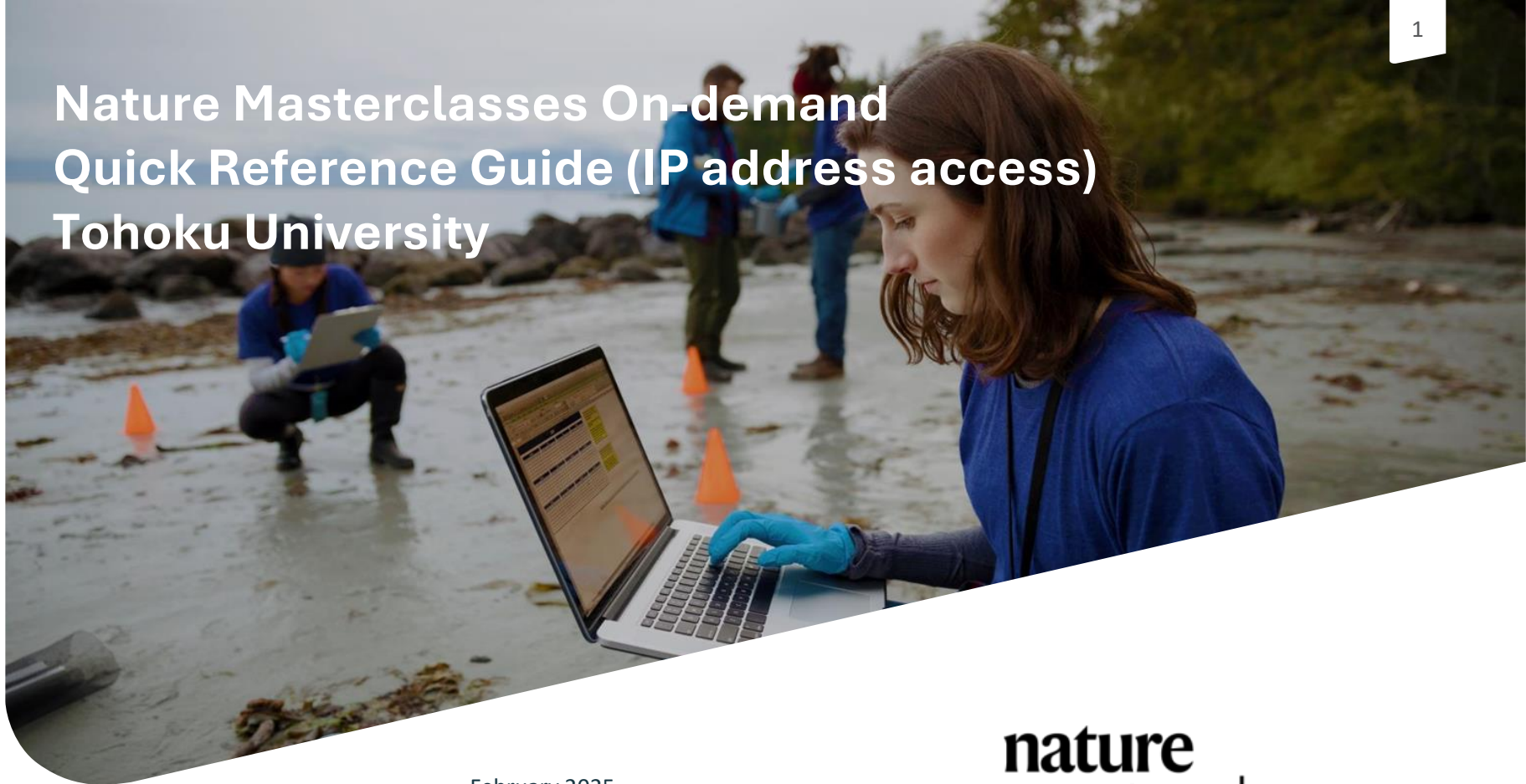


# Nature Masterclasses On-demand Quick Reference Guide (IP address access) Tohoku University



February 2025  
Springer Nature Japan KK

**nature**  
masterclasses

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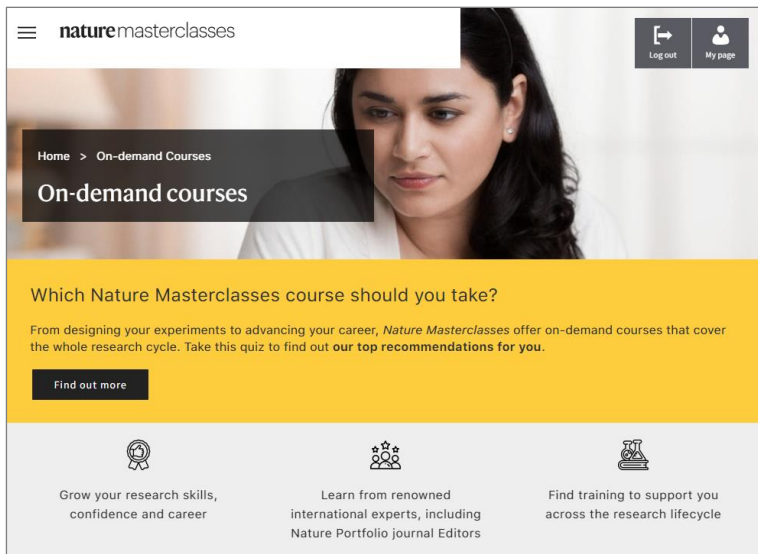
<b>1</b>	<b>What is Nature Masterclasses On-demand?</b>
<b>2</b>	<b>How to Access the Courses</b>
<b>3</b>	<b>How to Navigate the Platform</b>
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**1**

**What is Nature  
Masterclasses  
On-demand?**

# What is Nature Masterclasses On-demand?

Nature Masterclasses On-demand provides **professional development training** for researchers by drawing on the expertise of *Nature Portfolio* journal Editors and internationally renowned experts



The screenshot shows the 'naturemasterclasses' website. At the top left is a hamburger menu icon and the text 'naturemasterclasses'. At the top right are 'Log out' and 'My page' buttons. Below the navigation is a breadcrumb trail 'Home > On-demand Courses' and a main heading 'On-demand courses'. A large yellow banner contains the text 'Which Nature Masterclasses course should you take?' followed by a paragraph: 'From designing your experiments to advancing your career, Nature Masterclasses offer on-demand courses that cover the whole research cycle. Take this quiz to find out our top recommendations for you.' Below this is a 'Find out more' button. At the bottom, there are three columns with icons and text: 1. A ribbon icon with text 'Grow your research skills, confidence and career'. 2. A group of people icon with text 'Learn from renowned international experts, including Nature Portfolio journal Editors'. 3. A flask icon with text 'Find training to support you across the research lifecycle'.

naturemasterclasses

Log out My page


Home > On-demand Courses


## On-demand courses


Which Nature Masterclasses course should you take?

From designing your experiments to advancing your career, *Nature Masterclasses* offer on-demand courses that cover the whole research cycle. Take this quiz to find out our top recommendations for you.

Find out more

 Grow your research skills, confidence and career

 Learn from renowned international experts, including Nature Portfolio journal Editors

 Find training to support you across the research lifecycle

# What is Nature Masterclasses On-demand?



## Expert training

**High-quality** courses drawing on the expertise of *Nature Portfolio* journal Editors and leading international experts from academia and industry



## 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



## Tailored to researchers

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

## Presenters



**Magdalena Skipper**

Editor in Chief, *Nature* and Chief Editorial Advisor, *Nature Portfolio*



**W. John Kao**

Chair Professor of Translational Medical Engineering, The University of Hong Kong



**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



**Peter Gorsuch**

Chief Editor and Product Manager, *Nature Research Editing Service*, Springer Nature

# Available courses

The courses support researchers across the whole research life cycle.



For details on each course, please refer to the separate document “Nature Masterclasses On-demand courses.”

# Available courses

## Number of Modules / Length / Courses by job position

	Course	No. of Modules	Length (hours)	for PhDs	for Postdocs
<b>Design Research</b>	Experiments: From Idea to Design	4	8.5	✓	
<b>Secure Funding</b>	Finding Funding Opportunities	1	3.5		✓
	Persuasive Grant Writing	3	7.5		✓
<b>Experiment and Analyse</b>	Data Analysis: Planning and Preparing	2	4.0	✓	
	Data Analysis: Conducting and Troubleshooting	3	5.0	✓	
	Interpreting Scientific Results	1	3.5	✓	
	Managing Research Data	4	10.0	✓	
<b>Write and Publish</b>	Writing a Research Paper: 2nd Edition	5	4.5	✓	✓
	Publishing a Research Paper: 2nd Edition	2	6.0	✓	✓
	Writing and Publishing a Review Paper: 2nd Edition	17*	4.0		✓
	Focus on Peer Review	4	3.5		✓
	Research Integrity: Publication Ethics	3	8.0		✓
<b>Share and Disseminate</b>	Advancing Your Scientific Presentations	4	10.0		✓
	Creating Successful Research Posters	1	4.5	✓	
	Effective Science Communication	1	6.5		✓
	Narrative Tools for Researchers	3	8.5	✓	✓
	Maximising the Impact of your Paper	8*	1.5		✓
<b>Develop your Career</b>	Building a Strong Online Researcher Profile	5*	1.0	✓	
	Getting an Academic Research Position	4	9.5	✓	✓
<b>Work with Others</b>	Introduction to Collaboration	1	2.5	✓	
	Participating in a Collaboration	1	5.0	✓	✓
	Leading a Collaboration	3	11.5		✓
	Networking for Researchers	4	8.0		✓

\* Short lessons (Microlearning course)

# 2

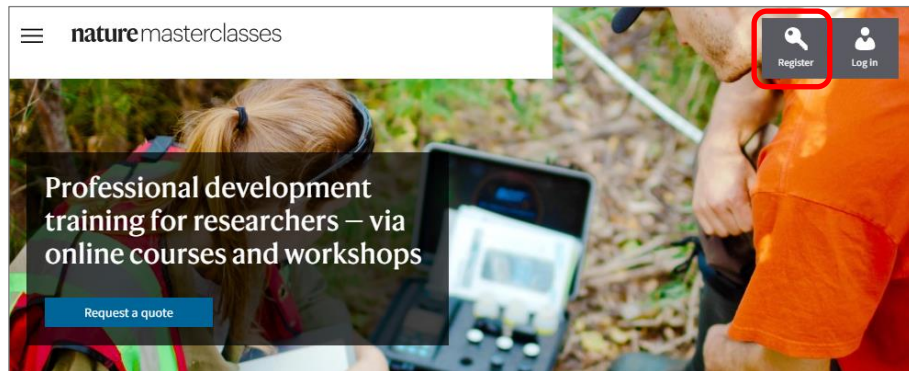
## How to Access the Courses



# Registering for the first time

The first time you register, make sure you are connected to your institution's network and are within the registered IP range. If you are off-campus, make sure you are connected to your institution's network remotely via VPN.

1. Visit:  
<https://masterclasses.nature.com>
2. Select [Register]



After registration, the website will remember your institutional IP address and it will enable you to access the course with any internet connection for 6 months.

If you have been off campus for over 6 months after your initial registration, you will need to log in from your institution's network to refresh your connection.

# How to register


3. Click “Your institution” and select your institution from the drop-down menu
4. Enter your password twice
5. Enter your email address
6. Complete the profile with your personal information

Registration

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

*\* denotes mandatory fields*

\* Your institution

Tohoku 

Institution not listed

Tohoku University

\* Create a password


\* Confirm password

\* email address


\* First name

\* Last name


\* Job Title

- please select - 

\* Discipline

- please select - 

\* Country/Territory

- please select - 

Select Tohoku University.

Password must be at least 10 characters long and contain capital and small letters.

You may use either your institution's email address or your private email address.

# How to register

7. Read and accept “Privacy Policy” and “Terms and Conditions”
8. Check you are not a robot
9. Click the “Register” button

Already registered? [Login here](#)


By clicking 'register' 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](#).

I accept the Terms and Conditions and confirm that I have read the Privacy Policy

[Privacy Policy](#) | [Terms and Conditions](#)

**Sign up for Nature Masterclasses Researcher News**

Sign up for these occasional emails containing useful content and/or information about tools for researchers from Springer Nature.

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).

After clicking 'register', please check your inbox for an email to confirm your registration. The email sender is 'onlineservice@springernature.com'.

**Need support?**

If you need support with the registration process and know the access type your institution has subscribed to, please find our user guides [here](#). For further assistance, contact [our Support Team](#).

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

# How to register

## 10. Check your mailbox for a confirmation email

If you don't receive a confirmation email, click "Resend email" or check if it's in your junk/spam folder.

✓ **ACTION REQUIRED**  
Please check your inbox to complete your registration. ✕

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  [Privacy](#) [Terms](#) [Resend email](#)

*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).*

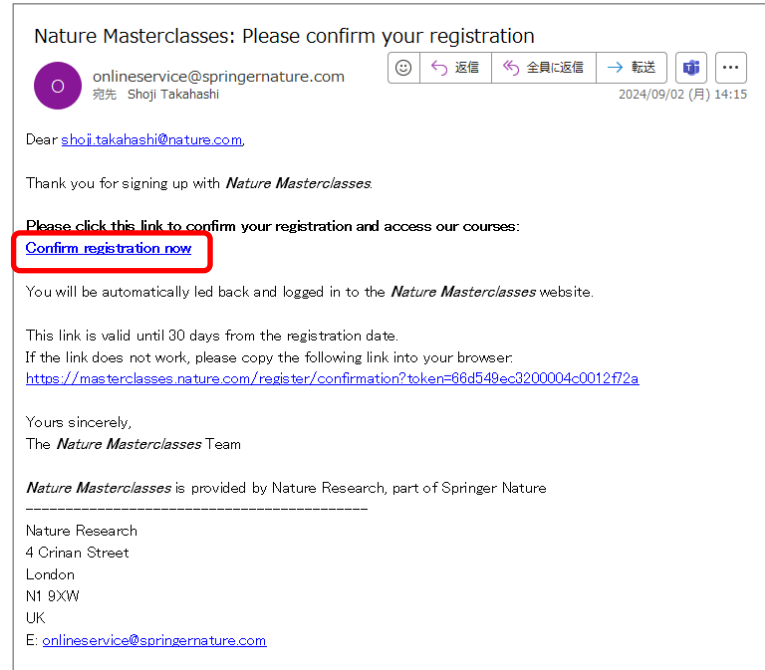
**Another problem?**

**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](#).

# How to register

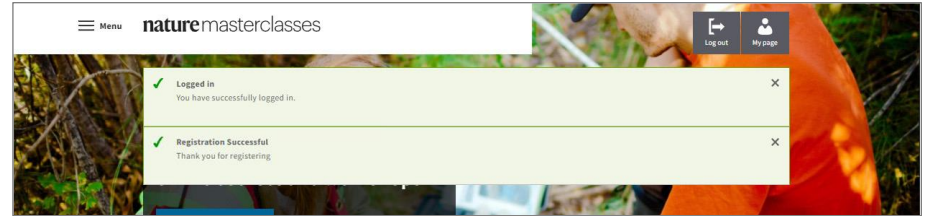
## 11. Open the confirmation email from Nature Masterclasses and click “Confirm registration now”



# How to register

12. You will be redirected to the Nature Masterclasses site.

Your registration is complete!



Icons before logging in

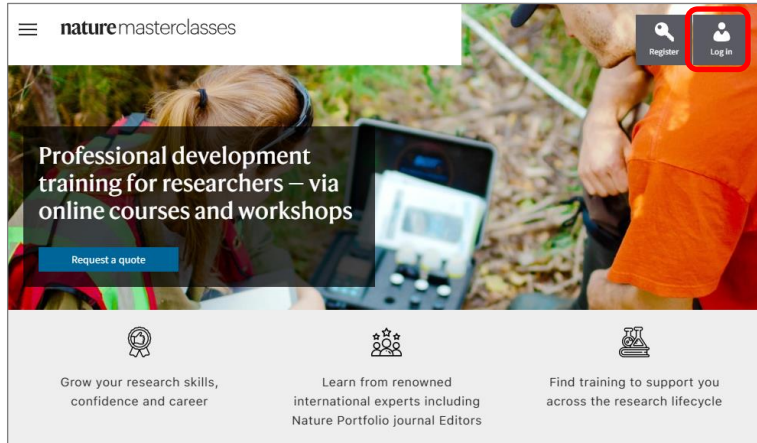


Icons after logging in



# Logging in for future visits

1. Click “Log in” on the top right
2. Enter your email address and password
3. Click “Log in”



## Log in

### Regular login

If you have registered on this site.

Email address\*

Password\*

[Forgot your password?](#) **If you have forgotten your password, click “Forgot your password?” to reset your password.**

Remember Me

**Log in**

### Institutional login

(single sign on)

If your institution provides access to Nature Masterclasses via its own login system.

[Select your institution](#)

### Not registered yet?

Better informed professionals make better decisions. The bundled expertise from all specialist areas supports you in keeping an eye on new developments in your field and being able to offer the best possible solutions.

[» Create new account](#)

# My profile

In My profile, you can update your email address or change your password.



☰ naturemasterclasses

## Profile data and settings

- My profile
- My dashboard
- My newsletters



### Personal data Edit

**First name**  
Shoji

**Last name**  
Takahashi

**Country**  
Japan

### My password

**Password**  
.....

To change your password, please request an email.  
We will send an email to shoji.takahashi@nature.com.  
Afterwards you will be able to change your password using the contained link.

[Request email](#)

### My email Edit

**Email**  
shoji.takahashi@nature.com

### Occupational data Edit

**Field of Study**  
Other

**Job Title**  
Other



# 3

## How to Navigate the Platform

# Navigation on the Nature Masterclasses On-demand platform

Nature Masterclasses  
top page

Professional development training for researchers – via online courses and workshops

On-demand courses

What we offer

On-demand online courses

On-demand courses

Our Experts

**Select Nature Masterclasses On-demand**

Nature Masterclasses  
On-demand homepage  
(list of courses)

On-demand courses

Which Nature Masterclasses course should you take?

Nature Masterclasses on-demand

Featured courses

Writing and Publishing a Review Paper: 2nd Edition

Writing a Research Paper: 2nd Edition

Persuasive Grant Writing

On-demand courses

**Select a course**

Course homepage  
(list of modules)

On-demand courses

Data Analysis: Conducting and Troubleshooting

About this course

What you'll learn

The course

Applying your data and reviewing your analysis plan

Analysing your data

Select the dropdown to expand

Developed with experts

**Select a module**

Module page  
(list of lessons)

Applying your data and reviewing your analysis plan

Review your data analysis options and your plan

Learn for each lesson

Reviewing your analysis options

What type of outcome are you interested in?

What type of variables do you have?

What do you want to learn about your data?

How will you test for correlations?

How many variables do you need to include?

Learn more about each of the 10 full hour sessions in more detail. Register with what type of outcome you are interested in. Remember to also complete the following activities:

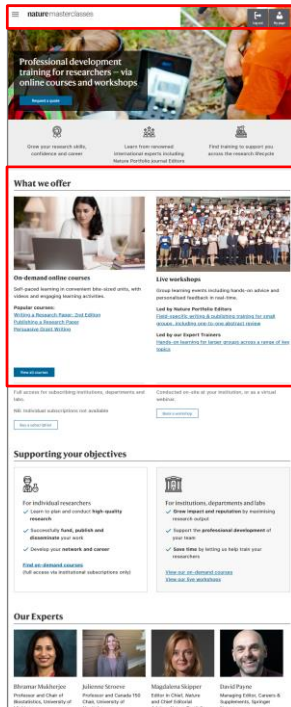
• A probability outcome is where you are using existing data to predict a behaviour or result.

• A response outcome is where you are changing a variable and investigating the effect on an outcome.

Now, in the following activity, try to match each type of outcome to the relevant example. For each type of outcome, choose the most appropriate

# Move to the Nature Masterclasses On-demand homepage

Once you are logged in, move to the Nature Masterclasses On-demand homepage.



Professional development training for researchers – via online courses and workshops

Over 500 research skills, confidence and career | Learn from 1000+ international experts, including Nature Portfolio Editorial | Find training to support you across the research lifecycle

### What we offer

**On-demand online courses**  
Self-paced learning in convenient bite-sized units, with videos and engaging learning activities.

**Live workshops**  
Group learning events including hands-on advice and personalised feedback in real-time.

**Popular courses:**  
[Writing a Research Paper: 2nd Edition](#)  
[Publishing a Research Paper](#)  
[Persuasive Grant Writing](#)

**Led by Nature Portfolio Editors**  
[Field-specific writing & publishing training for small groups, including one-to-one abstract review](#)

**Led by our Expert Trainers**  
[Hands-on learning for larger groups across a range of key topics](#)

Call us for subscription enquiries, approvals and more | Individual subscriptions not available | Contact us for all your enquiries, or as a virtual assistant

### Supporting your objectives

**For individual researchers**  
✔ Gain in-depth and concise high-quality research  
✔ Accessibly based, practical and actionable content  
✔ Develop your network and career

**Find on-demand content**  
that access the professional subscriptions you need

**For institutions, departments and centres**  
✔ Drive impact and reputation by maximising research output  
✔ Support the professional development of your team  
✔ Save time by letting us help train your researchers

[View our on-demand courses](#)  
[View our live workshops](#)

### Our Experts

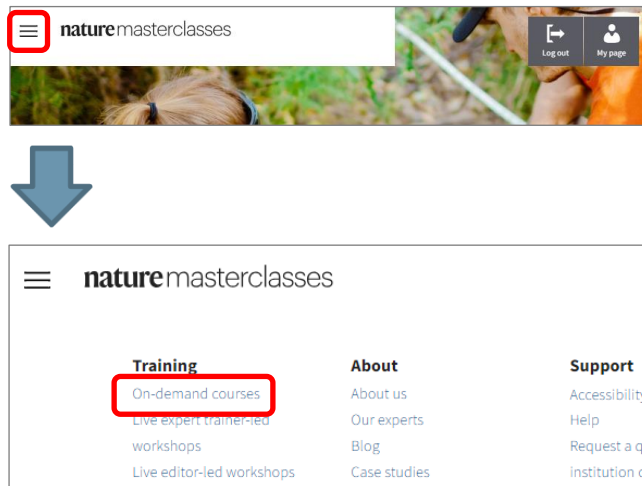
**Deborah Richardson**  
Professor and Chair of Biochemistry, University of

**Adrienne Sweeney**  
Professor and Canada 150 Chair, University of

**Magdalena Szepe**  
Editor in Chief, Nature and Chief Scientific

**David Payne**  
Managing Editor, Careers & Recruitment, Springer

Select the menu icon, and then click "On-demand courses"



naturemasterclasses

Log out | My page

Training

**On-demand courses**

Live expert trainer-led workshops

Live editor-led workshops

About

About us

Our experts

Blog

Case studies

Support

Accessibility

Help

Request a quotation

institution or

Scroll down the page, and then click "View all courses"

### What we offer

**On-demand online courses**  
Self-paced learning in convenient bite-sized units, with videos and engaging learning activities.

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[Field-specific writing & publishing training for small groups, including one-to-one abstract review](#)

**Led by our Expert Trainers**  
[Hands-on learning for larger groups across a range of key topics](#)

[View all courses](#)

# Choose a course on the Nature Masterclasses On-demand homepage

Choose a course from the featured courses section or from the courses organized by each stage of the research life cycle.

The screenshot shows the homepage layout. The 'Featured courses' section is highlighted with a red border and contains three course cards: 'Writing and Publishing a Review Paper: 2nd Edition', 'Writing a Research Paper: 2nd Edition', and 'Persuasive Grant Writing'. Below this is the 'Choose your course' section with a list of categories: All, Design research, Secure funding, Experiment and analyse (highlighted with a blue border), Write and publish, Share and disseminate, Develop your career, and Work with others.

## Featured courses

This section provides a detailed view of the featured courses. Each card includes a 'NEW EDITION' or 'POPULAR' badge, a photo of the instructor, and a brief description of the course content.

## Courses by research life cycle

This section shows the 'Choose your course' list on the left and the corresponding course cards on the right. The 'Data Analysis: Conducting and Troubleshooting' course is highlighted with a red box. The 'Experiment and analyse' category in the list is also highlighted with a blue border.

Bookmark this page for future visits.  
<https://masterclasses.nature.com/catalogue>

# Choose a module from the Course homepage

A course consists of one or more modules. Start learning by choosing a module from the course homepage.

The screenshot shows the course homepage with a red box highlighting the 'The course' section. Below this section, there is a dropdown menu to explore an overview of the content for each module. The 'Developed with expert academics, professionals and editors' section is also visible at the bottom.

**The course**

Select the dropdown to explore an overview of the content for each module

**Developed with expert academics, professionals and editors**

This course has been created with an international team of experts with extensive experience in data analysis, neuroimaging.

- Data and health including physics, medicine, ecology, and epidemiology
- Data science and bioinformatics
- External perspectives on common mistakes and good practices in data analysis

Mark Goodwin, John Montoro, Bharat Mahajan, Xavier Viana-Godina

## Select a module

The screenshot shows the course page with three modules. The 'Exploring your data and reviewing your analysis plan' module is highlighted with a red box around the 'Start this module' button. Below the modules, there is a dropdown menu to explore an overview of the content for each module. The 'Introduction to data analysis' module is expanded to show key concepts.

**The course**

**Introduction to data analysis** 5 lessons 1h 30m Start this module

**Exploring your data and reviewing your analysis plan** 5 lessons 1h 30m Start this module

**Analysing your data** 6 lessons 2h Start this module

Select the dropdown to explore an overview of the content for each module

**Introduction to data analysis**

- Key concepts in data analysis
- Why is effective data analysis important?
- Challenges in data analysis

## Navigation menu

The screenshot shows the navigation menu for the course. The 'Home > On-demand Courses > Experiment & analyse' path is highlighted with a red box. The course title 'Data Analysis: Conducting and Troubleshooting' is also visible.

Home > On-demand Courses > Experiment & analyse

**Data Analysis: Conducting and Troubleshooting**

# Module page (list of lessons)

A module consists of bite-sized multiple lessons.

nature masterclasses [Back](#)

Lesson 1 of 5

## Review your data analysis options and your plan

Once you have explored the characteristics of your data (such as the mean, distribution and range) numerically and visually, you can decide on the next stage of your analysis. Ideally, you will have already chosen whether to analyse one set of your data numerically (check out our course 'Data analysis: Descriptive statistics') and you will now have an idea of how to study the characteristics of your data to evaluate the suitability of your proposed analytical method. In this lesson we will explore this in more detail. Alternatively, if you have not yet created a data analysis plan, this lesson will provide you with a useful process to help with your planning.

In this lesson, we will explore factors to consider and local practices to follow when reviewing both your options for the main data analysis and your meeting analysis plan.

### Reviewing your analysis options

In addition to the description of statistics you will already have calculated - by exploring our data numerically and visually - the type of analysis method you choose will be determined by your answers to the following questions. Select each of these to find out more.

What type of outcome are you interested in?

What type of variable do you have?

What do you want to learn about your data?

How will you test for confidence?

How many variables do you need to include?

Let's consider each of the first four questions in more detail. Beginning with what type of outcome you are interested in. Remember to bear in mind the following definitions:

- A qualitative outcome is where you are using existing data to predict a behaviour or result.
- A response outcome is where you are changing a variable and investigating the effect on an outcome.

Now, in the following activity, try to match each type of outcome to the relevant example. For each type of outcome, choose the most appropriate

Progress indicators show you the lessons you've completed

nature masterclasses [Back](#)

Lesson 4 of 5

## Review your data analysis options and your plan

Introduction

Explore your data numerically

Explore your data visually

Review your data analysis options and your plan

Module summary

My data are behaving differently to how I expected. I didn't take this into account in my experimental design.

Don't worry, you can still make choices that will work for the data you have. Just review your analysis options.

Once you have explored the characteristics of your data (such as the mean, distribution and range) numerically and visually, you can decide on the next

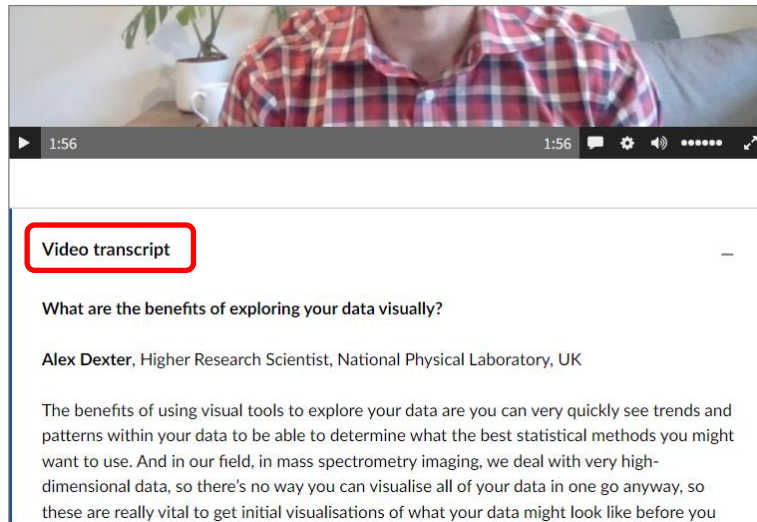
# Captions and transcripts on videos

All our course videos have English closed captions and transcripts.

## English captions



## English transcripts



# Track your progress

Your course progress is visible on the course homepage.  
Once you complete the course, your certificate is ready to download.


### About this course

---

'Advancing Your Scientific Presentations' teaches you how to create more memorable and engaging presentations to your scientific peers. In the course, you will discover how you can develop your research story – the foundation of your presentation – using narrative tools, how to build a slide deck that supports and enhances your presentation, and how to prepare to deliver your presentation on the day.

### Your progress

---



1 of 4 modules completed

[Resume](#)

### About this course

---


Being easily found and contacted online by different stakeholders such as journal editors, industry professionals, journalists and fellow researchers is crucial in fostering collaborations and advancing your career.

This microlearning course aims to equip you with the essential skills to build and optimise your online researcher profile(s).

You will learn how to choose the right websites and platforms to

### Your progress

---



All modules completed

**Course finished**

[Download course certificate](#)

[Select another course](#)



**nature**  
masterclasses

18 September 2024

Certificate of Course Completion

This is to certify that  
**Shoji Takahashi**  
has successfully completed

**Building a strong online researcher profile**  
A Nature Masterclasses online course





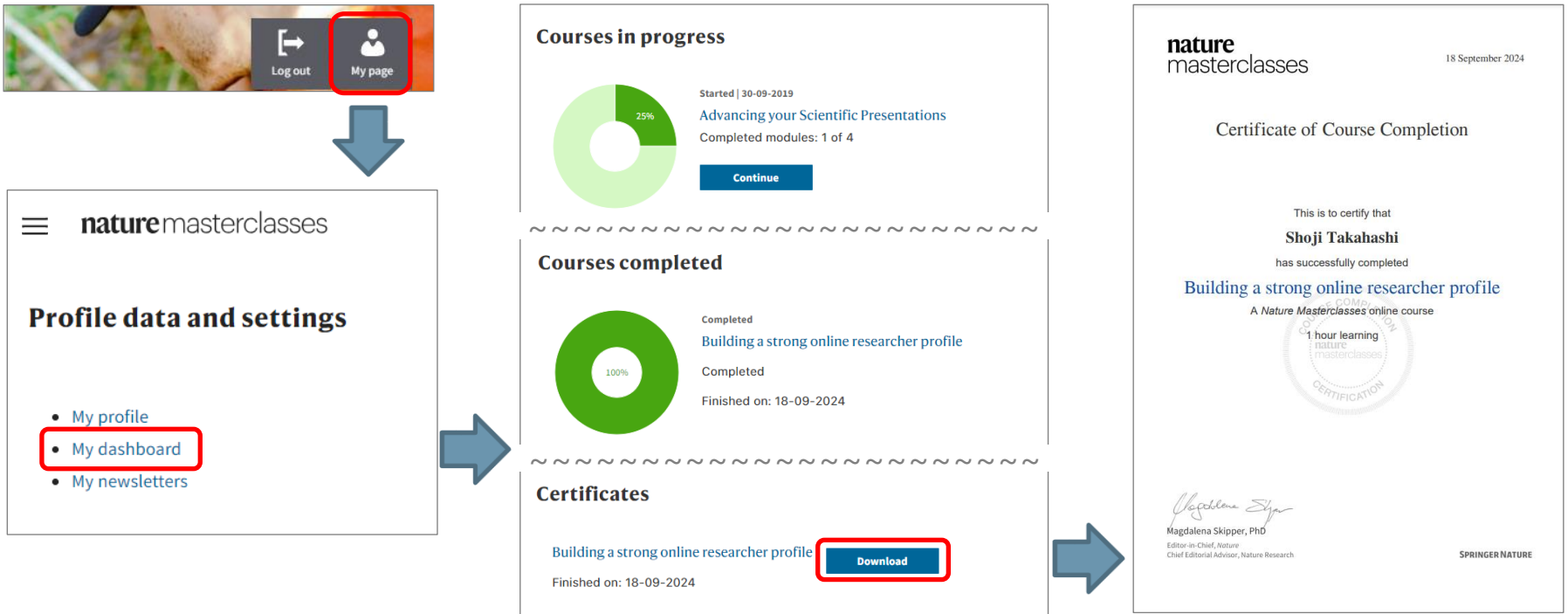
Magdalena Skipper, PhD  
Editor-in-Chief, Nature  
Chief Editorial Advisor, Nature Research

**SPRINGER NATURE**



# View your dashboard

Download certificates from 'My Dashboard' or the course part overview page.





**4**

**Help and FAQ**

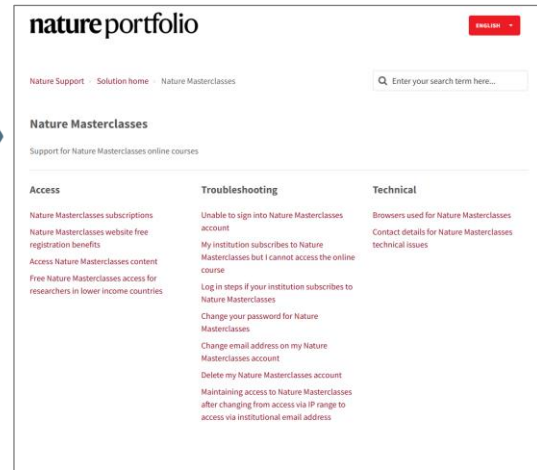
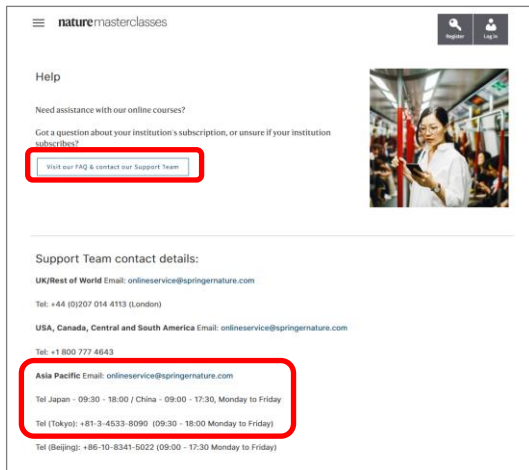
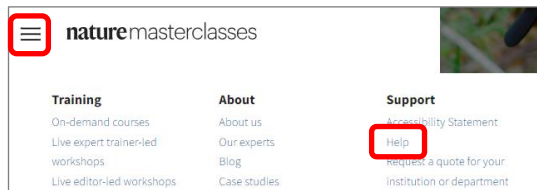
# Help and FAQ

If you encounter technical issues, please first refer to the FAQ. If the issue is not resolved, check the Help section for customer service contact information.

Select “Help” from the menu.

Customer Support

FAQ



**Customer Support**  
 (English and Japanese)  
 Email: [onlineservice@springernature.com](mailto:onlineservice@springernature.com)  
 Tel: 03-4533-8090