Nature Masterclasses Online

Category	Courses	Topics	lessons	time	total time
Design research	**Experiments: From Idea to Design**	Foundations of experimental design	6	1h 30m	8h 30m
		Developing your motivation, assumptions and hypotheses	6	2h	
		Assembling your experimental plan	7	3h	
		Utilising your experimental design	6	2h	
Secure funding	**Demystifying Grant Budgets**	Demystifying Grant Budgets	1	1h	1h
	Finding Funding Opportunities		8	3h 30m	3h 30m
	Persuasive Grant Writing	Before starting your grant application	5	2h	7h 30m
		Targeting your audience	5	2h	
		Creating a narrative	7	3h 30m	
Experiment and analyse	**Data Analysis: Conducting and Troubleshooting**	Introduction to data analysis	5	1h 30m	5h
		Exploring your data and reviewing your analysis plan	5	1h 30m	
		Analysing your data	6	2h	
	Data Analysis: Planning and Preparing	Introduction to data analysis and the importance of planning	7	2h	4h
		Preparing your data for analysis	7	2h	
	Interpreting Scientific Results	Interpreting Scientific Results	12	3h 30m	3h 30m
	Managing Research Data to Unlock its Full Potential	Welcome and introduction	5	2h	10h
		Creating and maintaining your data management plan (DMP)	4	1h 30m	
		Managing data in the short and long term	8	3h 30m	
		Sharing your data	7	3h	
Write and publish	**Writing a Research Paper**	What makes a great paper?	8	50m	4h 20m
		Elements of writing style	6	25m	
		Titles and abstracts	11	40m	
		From introduction to conclusion	12	40m	
		Data management	11	50m	
		Data presentation	11	55m	

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Write and publish	**Publishing a Research Paper**	Authorship and authors' responsibilities	12	40m	5h 30m
		Selecting a journal for publication	8	35m	
		Submitting your paper	9	30m	
		Understanding peer review	12	1h 05m	
		Journal decisions	9	1h	
		The editorial process	6	15m	
		Measuring impact	7	40m	
		Plagiarism and other ethical issues	11	45m	
	Writing and Publishing a Review Paper	Writing and Publishing a Review Paper	16	1h 30m	1h 30m
	Focus on Peer Review	Your role as a peer reviewer	10	40m	3h 30m
		The peer review report	16	1h 10m	
		Ethics in peer review	10	50m	
		Variations and innovations in peer review	10	50m	
	Research Integrity: Publication Ethics	Preparing to publish with integrity	5	1h 30m	8h
		Publication ethics during manuscript preparation	11	4h 45m	
		Publication ethics after submission	5	1h 45m	

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Share and disseminate	**Advancing your Scientific Presentations**	Overcoming your research presentation challenges	5	2h	10h
		Developing the story behind your talk	7	2h 30m	
		Building an engaging slide deck	7	2h 30m	
		Preparing and navigating your talk	7	3h	
	Effective Science Communication	Effective Science Communication	13	6h 30m	6h 30m
	Narrative Tools for Researchers	Why use a story?	6	2h	8h 30m
		Building your story	8	4h	
		Refining your story	7	2h 30m	
	Creating Successful Research Posters	Creating Successful Research Posters	11	4h 30m	4h 30m
	Increasing your Visibility as a Researcher Using Social Media	Increasing your Visibility as a Researcher Using Social Media	1	1h	1h

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Develop your career	**Getting an Academic Research Position**	Exploring your values, interests, skills and career goals	9	2h	9h
		Finding a research position	6	2h	
		Applying for a research position	9	2h 30m	
		Excelling at the interview	8	2h 30m	

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Work with others	**Introduction to Collaboration**	Introduction to collaboration	8	2h 30m	2h 30m
	Leading a Collaboration	Initiating and leading a collaboration	13	5h	11h 30m
		Running and troubleshooting a collaboration	6	2h 30m	
		Outputs and next steps	10	4h	
	Networking for Researchers	Why network?	5	2h	8h
		Getting ready to network	6	2h	
		Connect with new networking contacts - in person and online	7	2h 30m	
		Nurturing and harnessing the power of your network	5	1h 30m	
	Participating in a Collaboration	Participating in a Collaboration	8	5h	5h

For descriptions of the course contents see
https://masterclasses.nature.com/catalogue/24073606