

Resources for developing your research skills

Resources covering multiple research skills

- [Tips on Doing Impactful Research](#), created by Silvana Hultsch and Ronja Lutz, explains how you can increase your ability to do impactful research.
- [How to do great research](#) is a site giving advice on many aspects of doing research, aimed primarily at PhD students in computer science but featuring a lot of broadly applicable advice.
- [How to do research that matters](#) discusses techniques for producing impactful, decision-relevant research.
- The [Research Skills Toolbox](#) from [CERI](#) links to many resources for honing your research skills.
- [How Effective Altruism Can Help Psychologists Maximize Their Impact](#) explores how to incorporate ideas from EA into psychology.
- [Researching and writing for Economics students](#) by [David Reinstein](#)

Meta-learning

- [Learning how to learn](#)

Productivity

- The [80/20 rule](#) can be a useful heuristic when prioritising your time.
- Struggling with perfectionism or prioritising? Consider [half-assing it with everything you've got](#).

- [Getting things done](#) by David Allen describes a popular productivity system (summary of the [general approach here](#)).
- [Deep Work](#) by Cal Newport looks at the importance of focused work without distractions.

Reading papers

- [How to read a paper](#), a guide to the 'three pass' approach.
- [Literature review matrix](#), a worksheet to help you follow the 'three pass' approach.

Developing a research question

- Our advice on [creating a theory of change for your research](#) explains how to increase the impact of your research by building a step by step plan of how you will achieve your goals.
- [Scribbr](#) has this useful framework for identifying and developing a research question to writing a research proposal.
- [Improving your statistical questions](#) is a free online course by Daniel Lakens.

Open Science and pre-registration

Pre-registration

- [What it is](#) and [how to do it](#) (for registering randomized control trials specifically see the [AEA RCT registry](#)).
- Also see this list of journals doing [registered reports](#) (see the "participating journals" tab)

- See the [Standart Operating Procedure](#) for when you come across a situation you haven't mentioned in your preregistration.

Doing reproducible and ethical science

- The [Guide for Reproducible Research](#), an open source guide on creating reproducible, ethical and collaborative data science.
- The [PhD Toolkit on Transparent, Open, and Reproducible Research](#) by Open Science Framework.
- This [MOOC](#) by Berkeley Initiative for Transparency in Social Sciences.
- This course on [improving credibility in social science research](#) by Policy Design and Evaluation Lab.

Statistics

- [Improving your statistical inferences Coursera course](#) by Daniel Lakens
- See [UCLA's guide](#) to using [G*Power](#) and more resources [here](#).
- Read [here](#) how to increase your power if your resources are limited.

Data analysis

- [List of Computational and Data Analysis resources](#) by Maximilian Kasy
- [Data visualisation using R, for researchers who don't use R](#) to increase reproducibility and transparency.

Writing skills

General advice for writing research papers

- [The Writing Workshop: Write More, Write Better, Be Happier in Academia](#) is a free book aimed at early-career researchers.
- [This document](#) also contains many useful links and tips on honing writing and communication skills.
- [Scientific Writing Coursera course](#) by Kristin Sainani
- [Tips for Writing Technical Papers](#), a CS-oriented guide to writing a research paper

Advice on writing a literature review

- [Writing a literature review \(economics\)](#)
- [Yale Library Guide to Literature Reviews](#) (political science)
- [Literature review for academic outsiders](#) (LessWrong) explains the value of doing literature reviews and links to many other resources

Tools to help with the research process

Improving your workflow

- [Elicit](#) is a GPT-3 powered research assistant that helps with various tasks, including classifying datasets and finding researchers similar to a list you started with, which may be helpful if you're looking for a supervisor. Students automatically receive access as part of our coaching process.
- [SMMRY](#) automatically summarises text to save you time.
- [The Brain](#) allows you to organise ideas in non-linear mind maps. We think it's the best mind-map tool and may be particularly useful during creative research phases and when working in open/new research fields.

- [RoamResearch](#) and [Obsidian](#) are note-taking tools which present networks of connected notes in graph form.
- [Notion](#) and [Workflowy](#) are project management and note-taking apps. The Notion personal plan is free with an academic email address.

Finding existing data

General

- [Recommended data repositories](#) by Nature and [Google Dataset Search](#)

Development economics

- [List of data repositories](#) by Markus Eberhardt

Social sciences

- [Longitudinal Internet Studies for the Social sciences data archive](#) (Netherlands); [Data.World catalogue](#)(mainly US), [Pew Research Center](#) (mainly US)

Statistical data

- [Gov.uk database](#) (mainly from the UK)

Literature reviews

- [Elicit](#) allows you to enter a question and receive answers from research papers.
- [Connected Papers](#) creates a visual overview of your field of study, showing papers that are similar to the paper you started with.

- [Semantic Scholar](#) is a literature search tool that provides one-sentence summaries of papers and shows papers that influenced or were influenced by the paper you are reading.
- [Scite](#) shows the contexts in which a scientific article has been cited and whether the citations were accompanied by supporting or contrasting evidence.
- [LitMaps](#) creates visual maps of citations between research papers and recommends relevant papers.
- [ResearchRabbit](#) helps you search for papers and authors, monitor new literature and visualise research landscapes.

Reference Managers

- [Citation Manager Comparison](#)
- [Zotero](#) (with online [extension](#))
- [Paperpile](#) (integrated with Google docs)
- [Mendeley](#)
- [EndNote](#)

Running a successful study

Collections of resources

- For psychology and potentially other social sciences, the [Compendium of Methods and Stats Resources](#) links to many useful papers, tools and tutorials for the planning and analysing of research studies.

Recruiting Participants

- [Positly](#)
- [Prolific](#)
- [CloudResearch](#): Improved service built on top of MTurk
- [Reviews of various platforms](#) and more rigorous comparison can be found [here](#).

Building a Study

Tools for building online experiments and behaviour change programs:

- [Guided Track](#)
- [Gorilla](#)
- [DeclareDesign](#)
- [Qualtrics](#) (some universities have paid subscriptions for students)

Funding and sharing your research

Finding funding

- See our [funding database](#) for PhD funding related to our recommended research directions (some of these opportunities may also be relevant to undergraduate and masters students).
- Sign up to our [opportunities newsletter](#) to hear about funding opportunities related to your research interests.
- Many universities have their own university- or faculty/school-based mini-grants programs to support students with particularly promising research or extra-curricular plans (e.g. exceptional research proposals for their undergraduate, masters or PhD thesis or plans to attend conferences or research-based events to support their research). Try

googling something like “special research grants [name of your university]” to find whether yours offers this.

- The [2021 scholarship guide](#) outlines scholarships available in various universities across multiple countries for undergraduate, masters and PhD students.
- [This site](#) features Effective Altruism funding opportunities for a number of different cause areas and disciplines and see [this post](#) for additional opportunities.

Publishing

Where to publish your paper (both sites provide recommendations based on your abstract):

- [Journal Guide](#)
- [JANE](#)
- Listing of [undergraduate research journals](#)

See our advice on [sharing your finished thesis or dissertation](#) for more ideas.

Presenting your research

- [How to Envision, Design, and Deliver Engaging Research Presentations](#)
- [Presentation Skills Toolbox](#) from [CERI](#) (stem oriented)

See our advice on [sharing your research findings beyond academia](#) for more ideas on sharing your research with potential stakeholders.

Awards

International, all disciplines

- [Effective Thesis Exceptional Research Award](#)
- [The Global Undergraduate Awards](#)

International, discipline-specific

- [Undergraduate Thesis Prize in Global Priorities Research](#) (Undergraduate; Philosophy and Economics)
- [VCLA International Student Awards](#) (Master and Bachelor; Logic, Computer Science, Mathematics, Philosophy)
- [Student International Research Award](#) (Bachelor and Master; Psychology)
- [Michael Nicholson Thesis Price](#) (PhD; International Studies)
- [Award for Outstanding Doctoral Thesis Research in Biological Physics:](#) (PhD; Experimental, Computational, Engineering, or Theoretical Biological Physics)
- [Helmholtz Doctoral Prize](#) (PhD; Energy, Earth and Environment, Health, Aeronautics Space and Transport, Matter, Key Technologies)
- [The Joshua Cefalu Prize](#) (Neurobiology)

Germany

- [German Thesis Award](#) (PhD, all fields)

UK

- [RAS Thesis Prizes](#) (PhD): [Michael Penston Prize](#) for the best thesis in astronomy and astrophysics, the [Keith Runcorn Prize](#) for the best thesis in geophysics and planetary science, and the [Patricia Tomkins Prize](#) for the best thesis in instrumentation science for astronomy and geophysics

- [BERA Doctoral Thesis Award](#) (PhD; Education)
- [UK Data Service Dissertation Award](#) (Undergraduate; Social Sciences)
- [The BIHG Thesis Prize](#) (PhD; International History)
- [The Sullivan Doctoral Thesis Price](#) (PhD; Computer or Natural Vision)

Your own department/university likely run their own thesis awards. Consider applying – it is usually a good way to show that your thesis is exceptional.

Next steps

[Internships and other opportunities](#)

If you want to find out about research-related opportunities relevant (particularly those relevant to the [research directions](#) we recommend), consider:

- Signing up to our [Opportunities newsletter](#), which features opportunities particularly suited to students interested in research careers and early-career researchers.
- Exploring our [research direction profiles](#) for featured opportunities and signing up for the newsletters we list in the profiles. up for the newsletters we include in our profiles.
- Exploring the newsletters [linked in this post](#).

Some further potential sources of opportunities are:

- [Effective Altruism Job Postings](#) facebook group

- [80.000 Hours job board](#) filtered by research roles
- [This list](#) of EA-aligned research training programmes
- Tom Wein's Socially Impactful [Job Listings](#)

Careers Advice

If you're interested in a long-term research career, some resources that might help are:

- Our advice on [testing your fit for a research career](#) and [different research paths](#) you could follow (after undergrad and masters, but also relevant to PhD graduates).
- Our [research direction profiles](#), which often link to advice for early career researchers working on those research directions.
- [80000 Hours' Advice for Undergraduates](#)
- [Common Points of Advice for Students and Early-Career Professionals Interested in Global Catastrophic Risk](#)
- [Finding a research job in psychology](#) (for undergraduates and recent graduates)