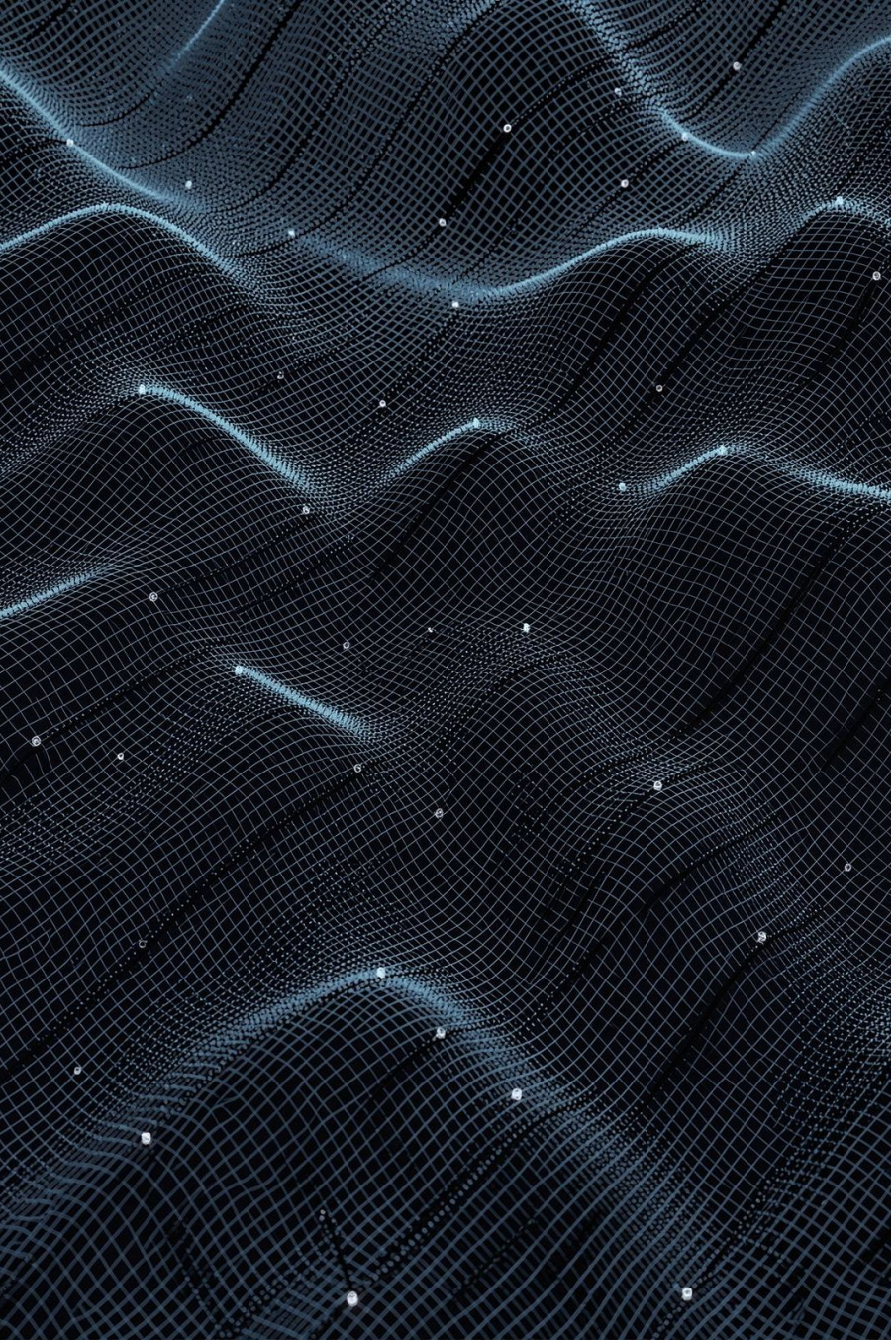
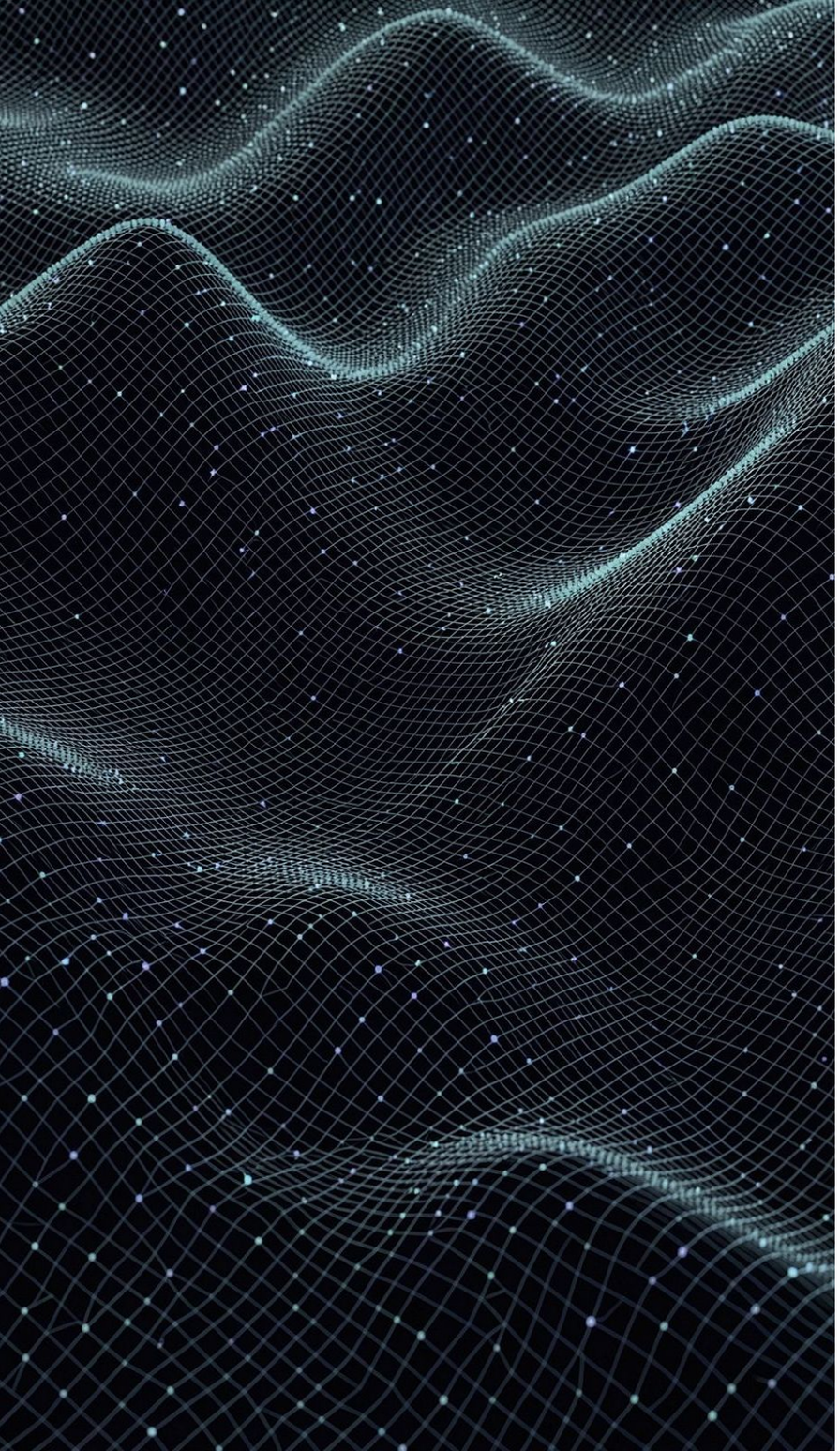


AI Tools for Graduate Research: A Practical Guide

A beginner-friendly introduction to working smarter with AI throughout your academic journey.

Made with GAMMA



Why AI Matters for Your Research

⏱️ Time Savings

Reduce hours spent on repetitive tasks like organizing papers and summarizing findings.

🎯 Better Focus

Spend less time on mechanical work, more time on critical thinking and analysis.

✨ Improved Quality

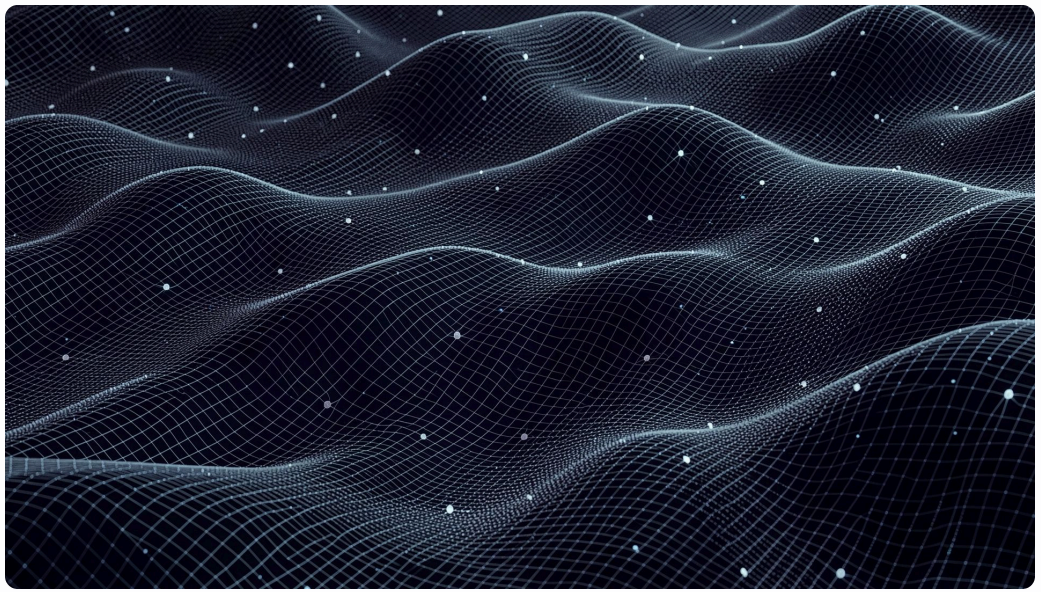
AI helps identify patterns and connections you might miss manually.

🧠 You Stay the Expert

AI is a tool—you remain the decision-maker and intellectual authority.

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Literature Review: Finding the Right Papers Fast



Consensus or Scite

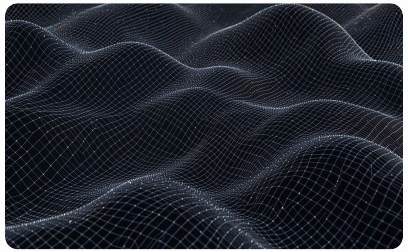
Search **millions of peer-reviewed papers** with AI-generated summaries. Find the papers that matter instead of reading through hundreds.

- Describe your research question → get ranked results with one-sentence summaries
- Filter by year, relevance, and study type
- **Example:** "How does gut microbiome affect mood?" → AI surfaces seminal papers, recent studies, and research gaps instantly

AI helps you **scope and prioritize** your reading more efficiently — but always verify sources and read the original papers before citing them.

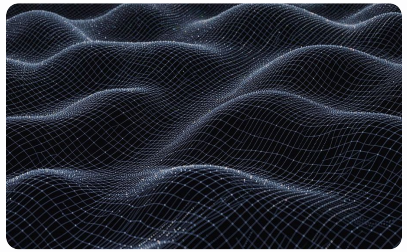
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Note-Taking & Organization: Never Lose an Insight



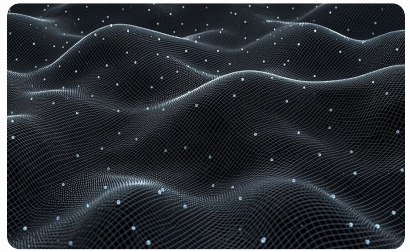
Claude or ChatGPT

Upload PDFs and ask targeted questions. "Summarize the methodology" or "What are the key findings?" — AI extracts and organizes instantly.



NotebookLM

Transform your papers into audio summaries. Listen while commuting or exercising — your literature review goes wherever you go.

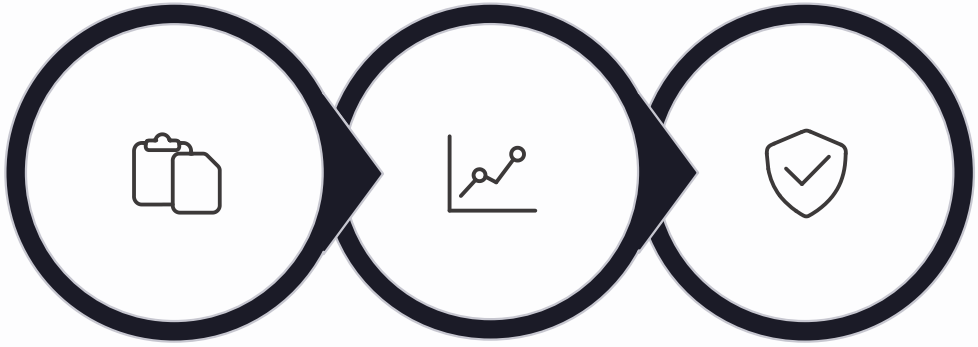


Reading Guides

Ask AI to create prioritized reading guides ranked by relevance to your thesis — so you always know which paper to read next.

Made with GAMMA

Data Analysis: From Raw Numbers to Insights



Claude or ChatGPT for Data

- Generate Python or R code for statistical analysis
- Debug errors and explain what went wrong
- Explain statistical concepts in plain language
- Suggest the right charts and visualizations

Example: "I have survey responses in CSV. What patterns do you see?" → AI identifies trends and proposes next steps.

⚠ **Reality check:** Always verify results — AI can make mistakes with complex datasets.

Made with GAMMA

Presentation Creation: From Outline to Slides

🎨 Gamma

Describe your research and AI generates a polished, visual presentation — like this one.

💬 ChatGPT / Claude

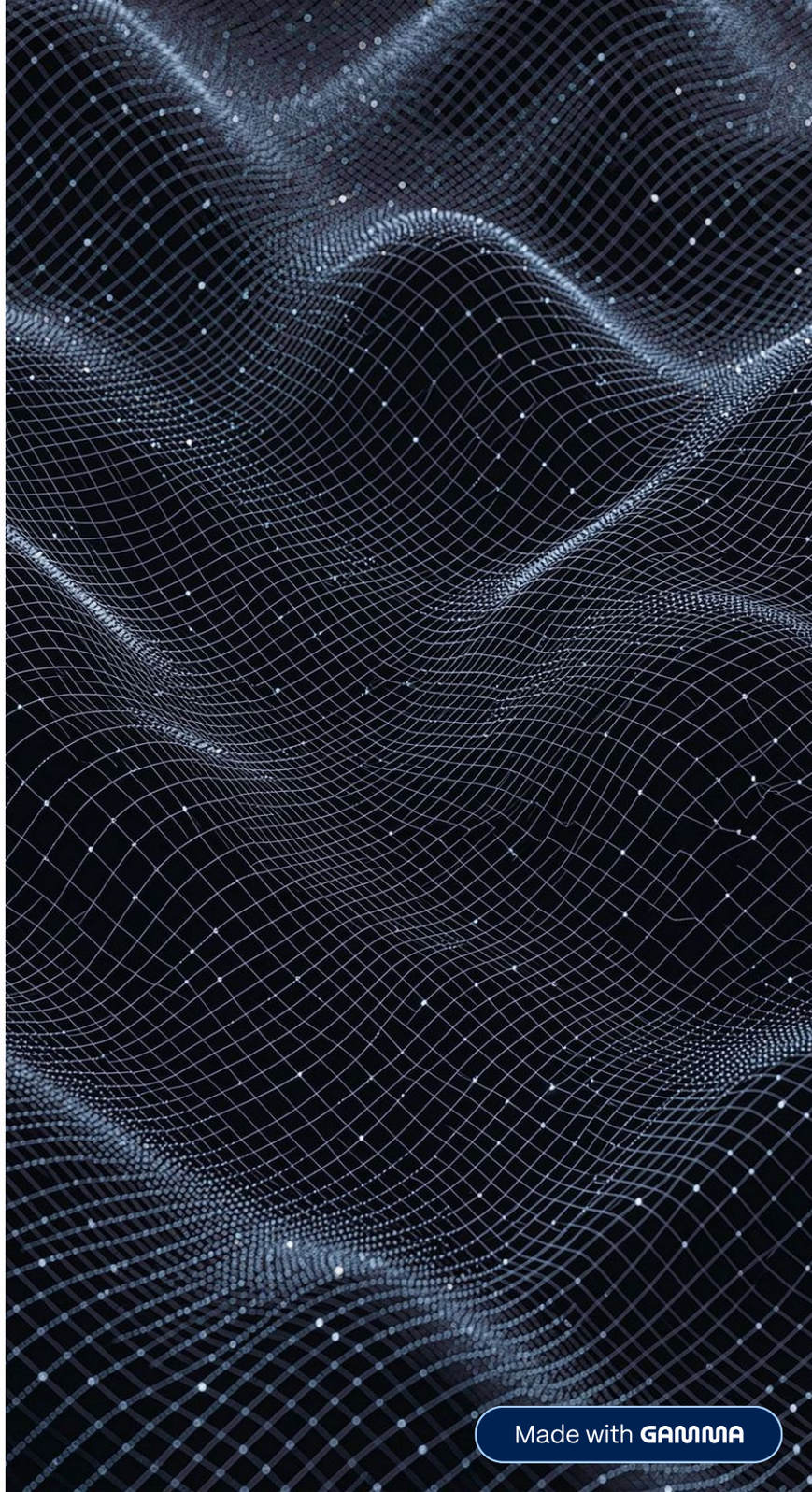
Draft slide content, write speaker notes, and refine your messaging before you build.

⚙️ How It Works

"Create 10 slides on my thesis findings" → AI structures your argument and suggests visuals automatically.

✍️ Your Role

Review, edit, and personalize. The AI handles the heavy lifting — you bring the expertise.



Getting Started: Your First Steps

1 Pick One Task

Start with literature review or note-taking — these offer the easiest, most immediate wins.

2 Try a Free Tier

ChatGPT free, Claude free, or Consensus free tier — no credit card or commitment required.

3 Be Specific

The better your question, the better the AI output. Treat prompts like search queries — precise beats vague.

4 Verify Everything

Check citations, data, and conclusions. AI is helpful but not infallible — your judgment is the final word.

5 Iterate

Ask follow-up questions, refine your prompts, and gradually build a workflow that fits your research style.

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