



Advancing Science with AI: Join the Google Developer Group for research.



GDG AI for Science



AI s transforming science right now



But with new opportunities come unique challenges...

01



Lack of resources

Research and testing are often delayed because of inadequate funding.

02



More and more data

The volume of data involved in scientific research is growing exponentially.

03



Lack of AI expertise

Many scientists have little to no experience with ML models.

04



New tech tools

New, advanced tools are available — but they have a learning curve.

05



Third party data

Access to third party data sets can be costly and time consuming.

At Google, we want to help you face these challenges by making AI more helpful.

Our AI journey started over twenty years ago. In the realm of science, we've been collaborating with institutions around the world to build AI-powered applications and accelerate scientific discovery.

Our Origin

We have naturally (though not deliberately) ended up working with many research institutions through the Australian **Digital Future Initiative** partnerships.

Digital Future Initiative



FEDERALLY FUNDED GOVT AGENCIES

CSIRO
LACA
NAL

NON-PROFIT RESEARCH

NON-PROFIT RESEARCH

FEDERAL DEPARTMENTS

Australian Government
Department of Foreign Affairs and Trade

COMPANIES

Cochlear™ SOLUTION ENERGY

UNIVERSITIES

THE UNIVERSITY OF SYDNEY
THE UNIVERSITY OF WESTERN AUSTRALIA
UNSW
MACQUARIE University
QUT Queensland University of Technology
UTS UNIVERSITY OF TECHNOLOGY SYDNEY
UNIVERSITY OF TASMANIA
Griffith UNIVERSITY
THE UNIVERSITY OF NEWCASTLE AUSTRALIA

NON-PROFITS

Next Sense
The Shepherd Centre
KELP FOREST ALLIANCE
The Nature Conservancy
Great Barrier Reef Foundation
GREAT SOUTHERN REEF FOUNDATION
project innerspace™
deaf connect

Our Organisers



Susan Wei
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Monash University
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Organizer
Haizea Analytics
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Kunal Ostwal
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Lifi Huang
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Mauricio Marrone
Macquarie University
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David Kainer
University of Queensland
The University of Queensland
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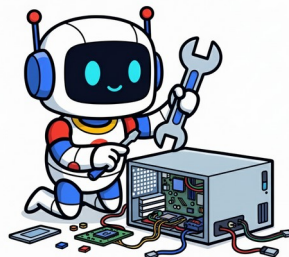


Nathaniel Butterworth
Science Catalyst Program
Manager
Google
[View profile](#)

Our Community



I am a researcher
Maths, science, history....



I support research
Professional staff, IT, librarians...



I am something else
Industry, policy...

Our Events



Nov 27, 2024

Speaker Session / Tech Talk

AI for Science: Leveraging LLM Agents for Scientific Discovery



Nov 26, 2024

Speaker Session / Tech Talk

Measuring bias in the latest generative models



Sep 18, 2024

Speaker Session / Tech Talk

Trends in Machine Learning and the Role of Open Source AI

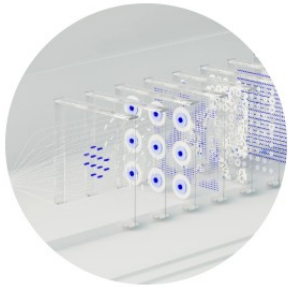


Sep 6, 2024

Workshop / Study Group

Google Earth Engine Workshop - Brisbane.

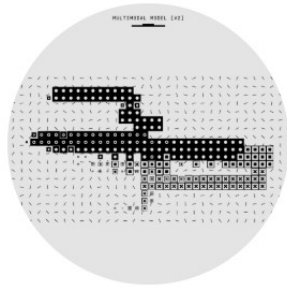
Our Events



Mar 5, 2025

Speaker Session / Tech Talk

Google Deepmind's AI stack
for Science



Feb 19, 2025

Speaker Session / Tech Talk

The amazing power of open
models for research



Feb 12, 2025

Speaker Session / Tech Talk

NotebookLM as a Tool for
Research & Education

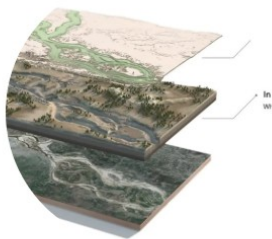


Dec 4, 2024

Speaker Session / Tech Talk

Acoustic AI in biodiversi
monitoring

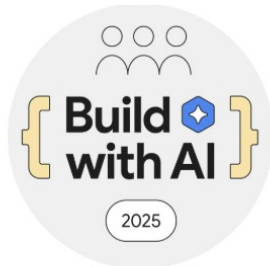
Our Events



May 21, 2025

Speaker Session / Tech Talk

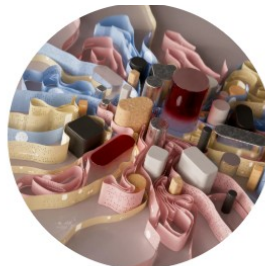
Deep Learning for Flood
Forecasting



May 15, 2025

Workshop / Study Group

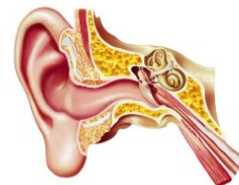
Build with AI: Build Your Own
AI-Powered Learning
Assistant with Gemini



Mar 26, 2025

Speaker Session / Tech Talk

Crowd-sourcing AI for
Science with Kaggle



Mar 12, 2025

Speaker Session / Tech Talk

Australian Hearing Initiative
- Bringing AI to Electronic
Hearing

Our Events



Jul 18, 2025

Speaker Session / Tech Talk

[Intro to Python with AI for Science](#)



Jul 4, 2025

Speaker Session / Tech Talk

[JAX series part 2: JAX for Combinatorial Optimisation](#)



Jun 27, 2025

Speaker Session / Tech Talk

[JAX series part 1: Introduction to JAX and the JAX AI Stack](#)



Jun 20, 2025

Speaker Session / Tech Talk

[Intro to Python with AI for Science](#)

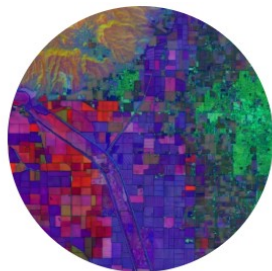
Our Events



Aug 29, 2025

Workshop / Study Group

Fine-Tune Your First AI
Language Model on Your
Data



Aug 7, 2025

Speaker Session / Tech Talk

AlphaEarth Foundations and
The Satellite Embedding
dataset: Unlocking the
power of Earth observation
with analysis-ready deep
learning



Aug 1, 2025

Speaker Session / Tech Talk

Overview of Google's
Climate & Energy Research
Efforts



Jul 25, 2025

Workshop / Study Group

Journal Club -
AlphaGenome

Our Events



Sep 23, 2025

Speaker Session / Tech Talk

SensorLM: Learning the Language of Wearable Sensors



Sep 19, 2025

Speaker Session / Tech Talk

Aboriginal English Voices - Improving Speech Technologies for Indigenous Users



Sep 11, 2025

Speaker Session / Tech Talk

The Landscape Change Monitoring System (LCMS): Four decades of nationwide data on landscape dynamics

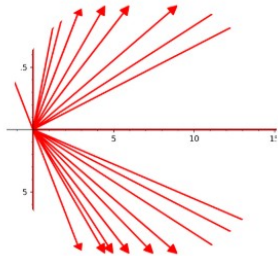


Sep 5, 2025

Workshop / Study Group

Using Large Language Models from R

Our Events



Oct 16, 2025

Speaker Session / Tech Talk

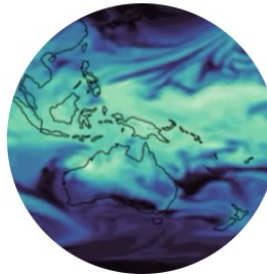
Can AI do Maths Research?
Some case studies.



Oct 10, 2025

Speaker Session / Tech Talk

GeoAI Made Easy -
Exploring Australia's
Changing Landscapes with
ASKTERRA's Conversational



Oct 3, 2025

Speaker Session / Tech Talk

AI-native climate modeling
with NeuralGCM

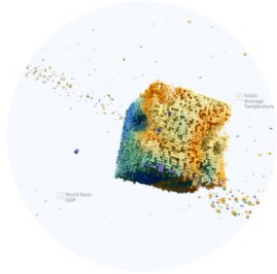


Sep 26, 2025

Workshop / Study Group

Journal Club - Aeneas

Upcoming...



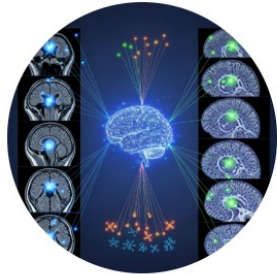
Oct 31, 2025 Speaker Session / Tech Talk

Accelerating Scientific Discovery: How Data Commons is Changing the Game for Researchers.

[Share](#)

Join us to explore Data Commons and unlock a new era of scientific discovery. Spend less time on data wrangling and more...

→ [View details](#)



Nov 7, 2025 Speaker Session / Tech Talk

AI in Neuro-Oncology: From Pathology Slides and MRI to Molecular Insights

[Share](#)

Explore cutting-edge AI-based approaches using whole-slide images (WSIs) and magnetic resonance imaging (MRI) to identify crucial molecular biomarkers for diagnosing and treating aggressive brain cancers like diffuse gliomas.

→ [View details](#)



Nov 14, 2025 Speaker Session / Tech Talk

Decoding the Melanoma Tumour Microenvironment with Multiplex Immunofluorescence and Deep Learning

Our Newsletter

AI for Science

Advancing the adoption of AI in Australian Science through a platform of knowledge exchange, collaboration, and learning.

Student Research position at Google

Are you currently enrolled in a PhD or Master's program in a technical field? Want to participate in research to develop solutions for real-world, large-scale problems? [Apply for a Student Research](#) position before October 31.

CSIRO releases Sciansa for public testing

Learn all about CSIRO's agentic AI tool designed to accelerate scientific discovery in this [video deep-dive on YouTube](#), then follow the links to sign up to be an early-access tester.

What is AI worth to Australia?

TI DR: \$240 billion – read more about the perceived impact of AI and analysis of the [Public First report here](#)

Providing resources to learn, grow, and build with AI

The *Google Developer Group AI for Science* community provides collaborative pathways to accelerate your research backed by the Google ecosystem.

Community

Research opportunities: Providing information about funding opportunities, mentorship, and engagement opportunities.

Compute research credits: Information about our programs offering research access to Cloud resources and AI accelerators

Workshops and events: Learn from Google and global experts on AI applied to your research domain.

Scan or follow the link to join.



gdg.community.dev/gdg-ai-for-science-australia