Innovation Grants

Informational webinar

September 2021

Disclaimer

All information on these slides is subject to change, and may contain typos or inadvertent omissions.

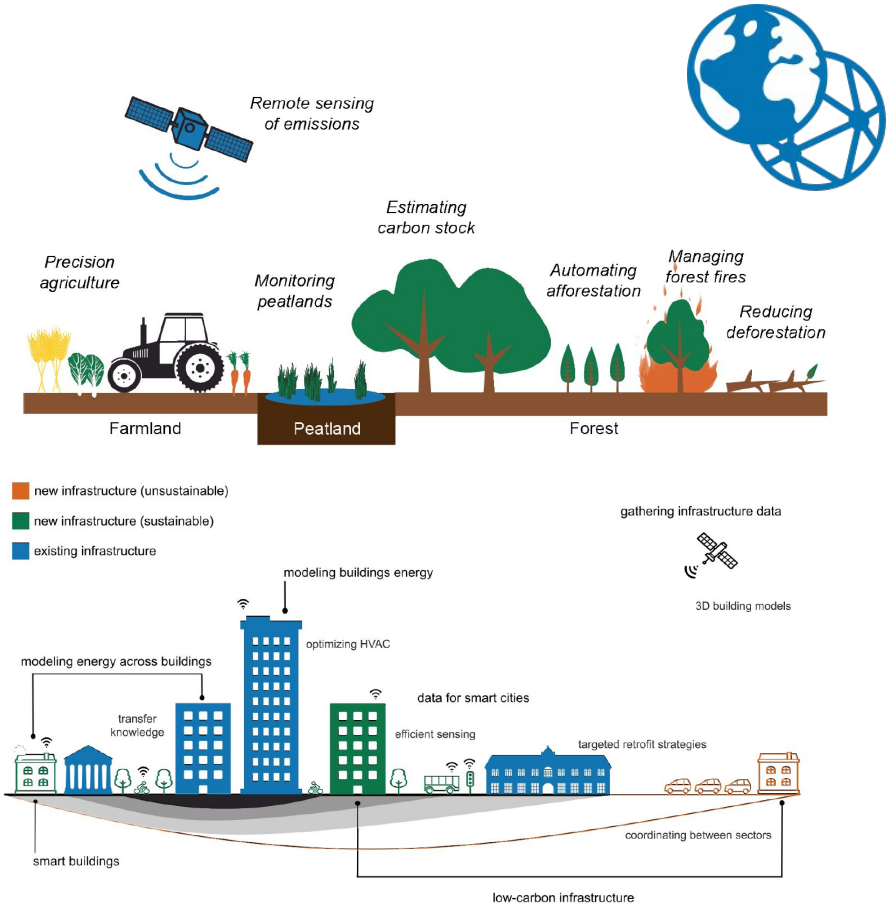
For the most accurate and up-to-date information, please see the grants website: https://www.climatechange.ai/calls/innovation_grants

About Climate Change AI

Catalyzing impactful work at the intersection of climate change and AI

- A global **network** of researchers, policymakers, entrepreneurs, etc.
- Digital **resources** for working in this space
- **Advice** for relevant stakeholders
- **Events** for knowledge-sharing

		Causal inference	Computer vision	Interpretable models	NLP	RL & Control	Time-series analysis	Transfer learning	Uncertainty quantification	Unsupervised learning
Mitigation	**Electricity systems**									
	Enabling low-carbon electricity		•	•		•	•		•	•
	Reducing current-system impacts		•				•		•	•
	Ensuring global impact		•					•		•
	Transportation									
	Reducing transport activity		•				•		•	•
	Improving vehicle efficiency		•			•				
	Alternative fuels & electrification					•				•
	Modal shift	•	•				•		•	
	Buildings and cities									
	Optimizing buildings	•				•	•	•		
	Urban planning		•				•	•		•
	The future of cities				•			•	•	•
	Industry									
	Optimizing supply chains		•			•	•			
	Improving materials									•
	Production & energy		•	•		•				
	Farms & forests									
	Remote sensing of emissions		•							
	Precision agriculture		•			•	•			
	Monitoring peatlands		•							
	Managing forests		•			•	•			
	Carbon dioxide removal									
	Direct air capture									•
	Sequestering CO_2		•						•	•
	Climate prediction									
	Uniting data, ML & climate science		•	•			•		•	
	Forecasting extreme events		•	•			•		•	
Adaptation	**Societal impacts**									
	Ecology		•					•		
	Infrastructure					•	•		•	
	Social systems		•				•			•
	Crisis		•		•					
	Solar geoengineering									



Tackling Climate Change with Machine Learning

See: ***www.climatechange.ai/summaries***

Conferences / Events

International Conf on Machine Learning (ICML), 2019

Neural Information Processing Systems (NeurIPS), 2019

UN Climate Change Conference (COP25), 2019

Applied Machine Learning Days (AMLD), 2020

Int'l Conf on Learning Representations (ICLR), 2020

TEDxClimateChangeAI, 2020

Neural Information Processing Systems (NeurIPS), 2020

International Conf on Machine Learning (ICML), 2021

Video recordings available online

Neural Information Processing Systems (NeurIPS), Dec 2021

NeurIPS 2019

Webinars

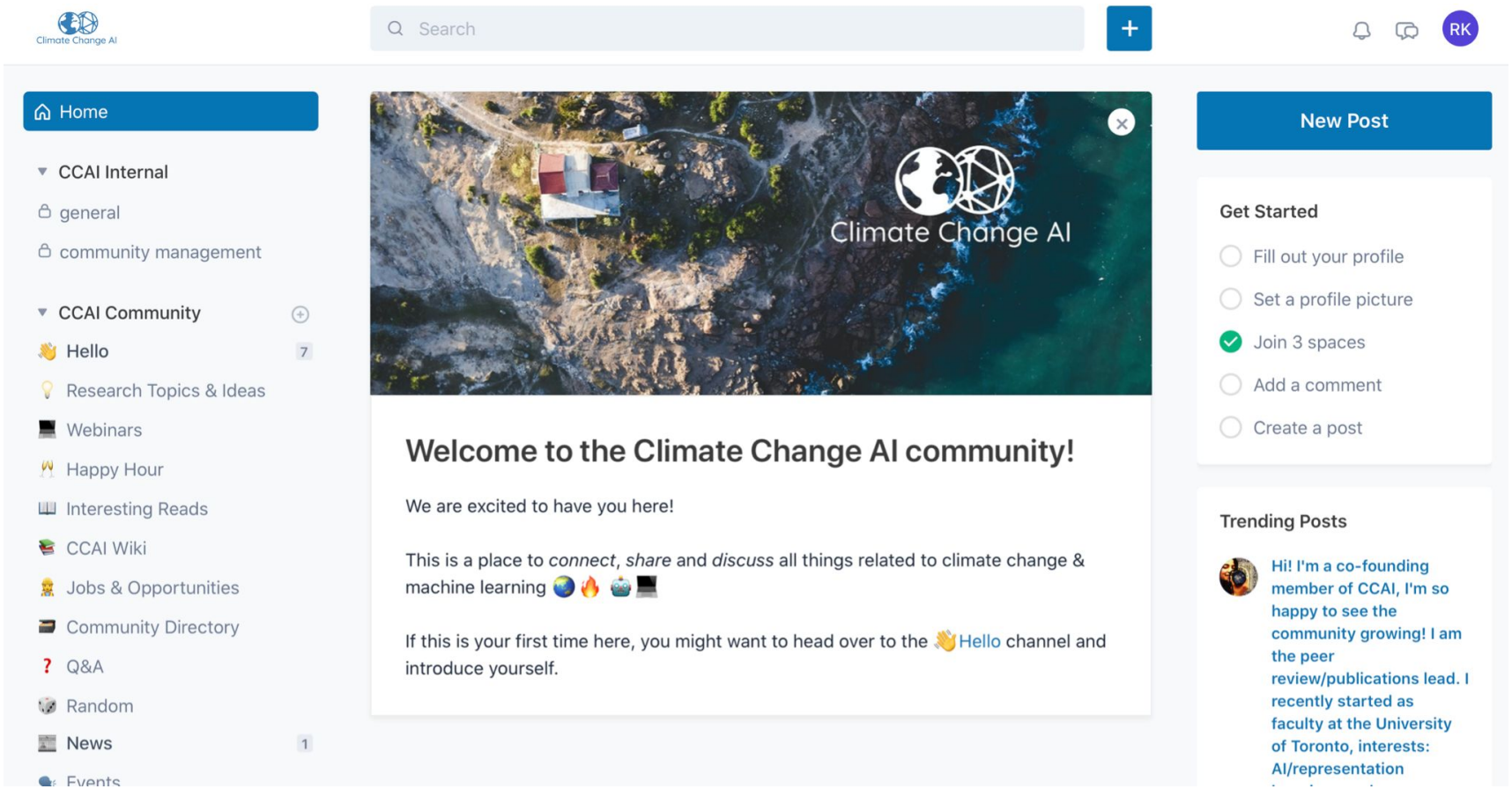
Register for our Oct webinar

Watch previous Webinars online

Past Webinars

Date	Webinar
July 14, 2021	Machine learning in climate finance ▸ Details: (click to expand)
June 18, 2021	Spatial planning of low-carbon cities with machine learning ▸ Details: (click to expand)
May 21, 2021	Coastal Adaptation to Sea Level Rise ▸ Details: (click to expand)
May 6, 2021	Applied Machine Learning for Agriculture and Forest Management in Changing Climate ▸ Details: (click to expand)

Circle community platform



Join the Climate Change AI network

Digital resources

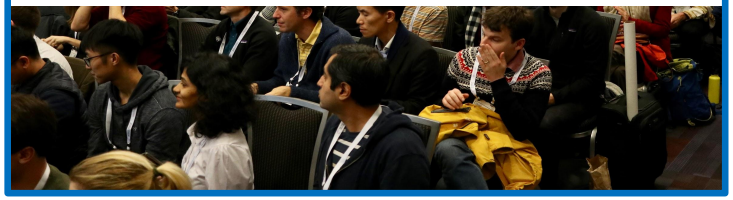
Foundational report on climate change and AI with datasets and add'l resources

Resource Wiki & meetups

Conferences and events

Next workshop (virtual) @ NeurIPS

- Attend: Dec 13 or 14



Funding programs

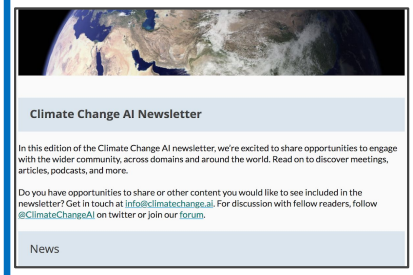
Global research funding of $1.8M available for impactful projects

- Apply by: Oct 15

Supported by SCHMIDT FUTURES, Quadrature Climate Foundation

Fiscal sponsor futureearth

Newsletter and community



- Calls for Submissions
- Funding
- Projects & Courses
- Readings
- Jobs

Webinars and happy hours

Next webinar: Oct 19

Machine learning for Climate Science and Earth Observation

Next happy hour: Oct 6

Learn more:

www.climatechange.ai

@ClimateChangeAI

Innovation Grants program

- Grant amount: Up to USD 150K per proposal, for projects of 12 months in duration. We will award a total of USD 1.8M in grants across all projects.
- Scope: Research projects at the intersection of AI and climate change.
- Eligibility: Principal Investigator must be a faculty member or postdoc at an accredited university or academic research institution in an OECD country. There are no eligibility restrictions on co-Investigators.
- Proposal submission deadline: **Oct 15, 2021 at 23:59** (Anywhere on Earth time, UTC-12)
- Submission site: https://cmt3.research.microsoft.com/CCAIGrants2021
- Contact: grants@climatechange.ai

Fiscal sponsor: futurearth Research. Innovation. Sustainability.

Supported by: SCHMIDT FUTURES, Quadrature Climate Foundation

Eligibility

- PI must be a faculty member or postdoctoral researcher at an accredited university or academic research institution in an OECD Member country.
- FAQ: Industry research labs & US national labs are NOT eligible as lead institutions.
- No restrictions on co-Investigators (e.g. can be outside OECD or non-academic).
- No aspect of a project should be double funded by other funding bodies.

OECD Member countries: Australia, Austria, Belgium, Canada, Chile, Colombia, Costa Rica, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea (Republic of), Latvia, Lithuania, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom, United States

Potential topics

Machine learning / AI + Climate change mitigation, adaptation, or climate science

OR

AI governance in the context of climate change

OR

Assessment of greenhouse gas emissions impacts of AI or AI-driven applications

Dataset requirement and IP

- All projects must propose a new dataset
- Compliant with the FAIR Data Principles (Findable, Accessible, Interoperable and Reusable)
- “Creation” of a dataset may include annotating data with labels, collecting completely new data, collating existing data from multiple sources, creating a data simulator (e.g. for reinforcement learning) that is well-grounded in reality, or open-sourcing existing data that was formerly private.
- All grant IP — e.g., the dataset/simulator produced and (if applicable) trained models or detailed descriptions of architectures and training procedures — must be made publicly available under an open license.

Evaluation criteria

- Climate relevance
- AI/ML relevance: Sound and appropriate method (not fancy method)
- Dataset quality and impact
- Project pathway to impact
- Ethics
- Feasibility
- Expertise of team

The following will be considered favorably:

- Deployment partners
- Traditionally under-funded areas of work
- Equity

Timeline

Activity	Date
Call release date	Aug 23, 2021
Informational webinars (register here)	Sept 23 & 27, 2021
Proposal submission deadline	**Oct 15, 2021**
Notification of results	Dec 10, 2021
Award start date	Jan 10, 2022
Award end date	Jan 10, 2023

How to submit

- Deadline: October 15, 2021 at 23:59 (Anywhere on Earth time, UTC-12).
- Applications via the CMT website: https://cmt3.research.microsoft.com/CCAIGrants2021
- Prepare the following items:
  - Basic information about PI and team (CMT form)
    - The first name in the CMT author list will be treated as the PI
  - Project description (max 12 pages, single pdf)
    - Same order and headers to separate the subsections as given on the website
  - Budget and budget justification (single pdf)
    - Eligible expenses include salaries for Investigators, students, and other research staff; materials, equipment, software, and compute; and expenses associated with conferences and other project-related travel.
    - Institutional overhead at a maximum rate of 10% of the total amount requested
  - CVs of key personnel (single pdf)

Create New Submission

Welcome to the submission portal for the 2021 Climate Change AI Innovation Grants program. See https://www.climatechange.ai/calls/innovation_grants for detailed submission instructions.

TITLE AND ABSTRACT

* Title: Title

* Abstract:

2000 characters left

AUTHORS

You may add your collaborators.

Primary Contact	Email	First Name	Last Name	Organization	Country/Region
◉	[redacted]	Lynn	Kaack	Hertie School	Germany

Email + Add

Enter email to add new author.

DOMAIN CONFLICTS

Please enter the domain of each institution (semicolon separated) that authors have a conflict of interest with (example: mit.edu; ox.ac.uk; microsoft.com). More specifically, please list domains of all institutions authors worked for, or have had very close collaboration with, within the last 3 years.

Note: It is important that you also enter the domains of authors' current institutions here since CMT does not automatically add them to conflicting domains. Please DO NOT enter the domain of email providers such as gmail.com, yahoo.com, hotmail.com and 163.com as institution domains.

Q&A

- Please submit your questions in the chat
- Try to be as general as possible so other participants learn from the answers
- Understand that we cannot answer certain questions due to fairness reasons
- If a question wasn't addressed, email to: grants@climatechange.ai