

Organizing Mathematical Knowledge in the Age of AI and Formalization

NAS Building rm 120 (2101 Constitution Ave. NW, Washington, DC 20418) and virtual (joining details sent to registrants)

MONDAY, JULY 20, 2026 (ALL TIMES ET)

9:00 a.m. Introduction and Motivations

Terence Tao (UCLA)

9:45 a.m. Panel on the Current Landscape and Challenges in Formalization and AI

Moderated by Melanie Matchett Wood (Harvard University)

Matt Ballard (University of South Carolina), Javier Gómez-Serrano (Brown University), Jesse Han (Math, Inc.), Jaume de Dios Pont (NYU Center for Data Science), Jason Reed (Lean FRO)

11:00 a.m. BREAK

11:15 a.m. Formally Verified Knowledge as Infrastructure for Math, Science, and Technology

Ken Ono (University of Virginia and Axiom Math)

12:00 p.m. Live Demo

Alex Kontorovich (Rutgers University)

12:30 p.m. LUNCH

1:30 p.m. Panel on Structures to Understand Knowledge

Moderated by Lauren Williams (Harvard University)

Andrea Ferrari (University of Cambridge)*, Benjy Firester (Massachusetts Institute of Technology), Xinze Li (University of Toronto), Kim Morrison (Lean FRO)

2:30 p.m. BREAK

2:45 p.m. Panel on the Resources Landscape

Moderated by Brendan Hassett (Brown University)

Ralph Abboud (Renaissance Philanthropy), Carina Hong (Axiom Math), David Spergel (Simons Foundation), Shida Wang (XTX Markets)

3:45 p.m. BREAK

4:00 p.m. Beyond Mathematics: Formalized Knowledge in Science and Engineering

Moderated by Simone Severini (Google)

Scott Duke Kominers (Harvard Business School)*, Sabrina Pasterski (Perimeter Institute for Theoretical Physics), Natarajan Shankar (SRI International)*, Joseph Tooby-Smith (University of Bath)

5:00 p.m. Adjourn

* Indicates virtual participation

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TUESDAY, JULY 21, 2026

9:00 a.m. Welcome Back: Future Visions for Formalization

Andrew Blumberg (Columbia University)

9:45 a.m. Panel on Infrastructure for Mathematical Knowledge

Moderated by Ravi Vakil (Stanford University and AMS)

Stella Biderman (EleutherAI), Alexander Hicks (Ethereum Foundation), Jared Duker Lichtman (Stanford University), Bernie Wang (NTT Data AI Vista)

11:00 a.m. BREAK

11:15 a.m. Panel on Federal Perspectives

Moderated by Pat Shafto (DARPA)

Stacey Levine (NSF), Mike O'Hara (NSA), George Stantchev (Naval Research Laboratory)

12:30 p.m. LUNCH

1:30 p.m. Working Groups: Develop Proposed Project Ideas

- Research and Infrastructure Roadmap
 - *In-person breakout room led by Daniel Spielman (Yale University)*
- Funding and Coordination Strategy
 - *In-person breakout room led by Ken Ono (UVA and Axiom Math)*
- Community and Ecosystem Development
 - *In-person breakout room led by Dimitri Shlyakhtenko (UCLA)*
- High-Stakes Domain Applications
 - *In-person breakout room led by Andrew Blumberg (Columbia University)*

2:55 p.m. BREAK

3:15 p.m. Report Out & Closing Town Hall

Moderated by Pat Shafto (DARPA)

4:00 p.m. Adjourn
