GLOBAL ADVANCES IN MEDICAL AI

Wednesday, March 4, 2026

24th Floor • 100 International Drive • Baltimore, Maryland

Johns Hopkins University

Data Science and AI Institute • Carey Business School

School of Nursing • School of Medicine • Hopkins Business of Health Initiative

PROGRAM

EYE ON AI convenes international thought leaders and Johns Hopkins faculty to examine how regulated medical AI can deliver measurable health gains—and what scholarship, infrastructure, and governance are needed to scale those gains responsibly.

Morning Ophthalmology as the testbed for regulated AI's ability to improve patient outcomes: evidence, economics, organizations, ethics, and equity.
Afternoon Interdisciplinary scholarly recommendations and steps needed to maximize health gains from all regulated AI on a global scale.

> Registration 8:00 AM • Morning Break 10:15 • Lunch 12:00 • Afternoon Break 3:30 • Reception 5:00–6:00 PM

AGENDA AT A GLANCE

MORNING SESSION

8:00–8:45	Arrival & Registration
8:45–9:00	Welcome and Introductions
9:00–9:30	Keynote Address — Pearse Keane
9:30–10:15	Fireside Chat — Abramoff, Tarver & Dai
10:15–10:30	Morning Break
10:30–11:30	Lightning Round Research Session (4 talks)
11:30–12:00	Table Discussions & Report-Out
12:00–1:00	Networking Lunch with Themed Tables

AFTERNOON SESSION

1:00–1:30	Keynote Address — Gudmund Hernes
1:30–2:00	Keynote Address — Charlotte Haug
2:00–3:00	App-Facilitated Breakout Sessions (4 tracks)
3:00–3:30	Report-Out Session
3:30–3:45	Afternoon Break
3:45–4:30	Panel: The Future of Global Medical AI
4:30–5:00	Closing Reflections & Next Steps
5:00–6:00	Networking Reception

DETAILED PROGRAM

MORNING SESSION

8:00–8:45 — **ARRIVAL & REGISTRATION**
Light breakfast and networking.

8:45–9:00 — **WELCOME AND INTRODUCTIONS**
Tinglong Dai, PhD & Kathy McDonald, PhD
Overview of the workshop vision and the day's two-part structure.

9:00–9:30 — **KEYNOTE ADDRESS**
"From DeepMind to Foundation Models: Ophthalmology as the Frontline of Medical AI"
Pearse Keane, MD, FRCOphth • University College London / Moorfields Eye Hospital
Introduced by: Phillip Phan, PhD
How ophthalmology became the global proving ground for medical AI, including foundational models, real-world clinical deployment, data governance, and future regulatory pathways.

9:30–10:15 — **FIRESIDE CHAT**
"Inside the First Autonomous AI Clearance: Regulation, Reimbursement, and Responsibility"
Michael Abramoff, MD, PhD (Digital Diagnostics) & Michelle Tarver, MD, PhD (FDA)
Moderator: Tinglong Dai, PhD
A discussion of the first FDA-cleared autonomous AI diagnostic system, covering regulatory innovation, patient engagement, reimbursement models, and the future medical AI regulations.

10:15–10:30 — **MORNING BREAK**

10:30–11:30 — **LIGHTNING ROUND RESEARCH SESSION**
"From Screening to Longitudinal Care: Real-World AI in Patients' Lives"
Introduced by: Daniel Polsky, PhD

Talk 1 | *"AI Screening for Diabetic Retinopathy in Children"*
Risa Wolf, MD, Division of Pediatric Endocrinology, Johns Hopkins School of Medicine
Implementation insights from the first pediatric AI screening program, focused on workflow, trust, and equity.

Talk 2 | *"Who's Funding Ophthalmic AI Research/Innovation: The Role of Academia"*
Alvin Liu, MD, Wilmer Eye Institute, Johns Hopkins School of Medicine
How Wilmer Eye Institute is creating data, workflow, and clinical structures that enable AI-driven retinal care.

Talk 3 | *"Point-of-Care AI to Prevent Vision Loss in Diabetes"*
Roomasa Channa, MD, Department of Ophthalmology, University of Wisconsin–Madison
Real-world lessons from deploying point-of-care diabetic retinopathy AI in diverse clinical settings.

Talk 4 | *"Nursing and Medical AI"*
Kelly Gleason, PhD, BSN, RN, FAAN, Associate Professor, Johns Hopkins School of Nursing

11:30–12:00 — **TABLE DISCUSSIONS & REPORT-OUT**
A facilitated reflection on the morning sessions. Lightning round speakers spread across tables. Each table discusses one or both guiding questions:

1. *What are the lessons for the future of AI based on what we have learned from ophthalmology?*
2. *What lessons transfer to other medical fields and challenges, and which ones do not?*

Approximately 15 minutes of table discussion, followed by brief report-outs (2 minutes per table).

12:00–1:00 — **NETWORKING LUNCH**
Tables are organized around three broad themes. Choose a table that interests you. Discussion is informal: exchange ideas, share what you know, and learn across disciplines. These conversations will carry into the afternoon breakout sessions.

- **A. Clinical Applications** — Diagnosis, precision medicine, risk prediction, screening
- **B. Systems & Infrastructure** — Clinical integration, data governance, foundation models
- **C. Emerging Paradigms** — Agentic AI, autonomous AI, de-skilling/upskilling, global collaboration

AFTERNOON SESSION

1:00–1:30

KEYNOTE ADDRESS

"The Historical Role of Hopkins in AI Developments"

Gudmund Hernes, PhD • Fafo Institute and BI Norwegian Business School
Former Norwegian Minister of Health and of Education & Research
Introduced by: Bhaven Sampat, PhD

A perspective from a sociology PhD student in the late 1960s—during the times of Herbert Simon and other seminal management thought leaders—highlighting how early interdisciplinary interest in AI remains relevant to scholarship and institution-building today.

1:30–2:00

KEYNOTE ADDRESS

"Looking to the Future of Medical AI"

Charlotte Haug, MD, PhD • Executive Editor, NEJM AI
Introduced by: Jason E. Farley PhD, MSN, MPH

A forward-looking view of global medical AI: what it takes to innovate, evaluate, and scale tools that deliver health gains, and how variation in delivery systems and policy environments can accelerate shared learning.

2:00–3:00

APP-FACILITATED BREAKOUT SESSIONS

"Designing the Next Three Years: From Use Cases to Commitments"

Participants join multidisciplinary working groups, each guided by an AI facilitator app and a table ambassador. The app uses a Socratic approach: participants contribute ideas, the app synthesizes and prompts deeper discussion, and the group works toward concrete outputs.

Track 1: Autonomous & Point-of-Care AI — deployment, accountability, workflow
Track 2: Foundation Models & Data Hubs — data strategy, infrastructure, stewardship
Track 3: Regulation, Evidence, and Agentic AI — evaluation standards, governance
Track 4: Global Advances & Partnerships — cross-border learning, collaboration

Each group identifies 2–3 important next steps for Hopkins and 2–3 recommendations for the broader field.

3:00–3:30

REPORT-OUT SESSION

Working groups present their top recommendations, commitments, and outstanding questions.

3:30–3:45

AFTERNOON BREAK

3:45–4:30

PANEL DISCUSSION

"The Future of Global Medical AI Innovation, Evaluation and Scaling"

International Panelists: *Pearse Keane, MD • Gudmund Hernes, PhD • Charlotte Haug, MD, PhD*
Hopkins Panelists: *Gordon Gao, PhD, Nancy Reynolds, PhD, MS, BSN, RN, Ayse P. Gurses, PhD*
Moderator: Kathy McDonald, PhD

International guests react to breakout report-outs and share cross-disciplinary, cross-country perspectives. Hopkins panelists represent the university's schools and institutes, responding to questions about where they see the possibility space and what Hopkins can uniquely contribute.

4:30–5:00

CLOSING REFLECTIONS & NEXT STEPS

Tinglong Dai, PhD & Kathy McDonald, PhD

Synthesis of the day's insights and action items for Hopkins' Global Medical AI initiative.

5:00–6:00

NETWORKING RECEPTION

Informal networking and collaboration-building with light refreshments. An opportunity to continue conversations, exchange contact information, and explore potential partnerships.

For questions or accessibility accommodations, please contact
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