
AI DEBATE 2

MOVING AI FORWARD: AN INTERDISCIPLINARY APPROACH

PRE-READINGS

A PREPRINT

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ABSTRACT

Pre-readings recommended to the audience before *AI DEBATE 2 - Moving AI Forward: An Interdisciplinary Approach*. **Confirmed speakers:** Ryan Calo, Yejin Choi, Daniel Kahneman, Celeste Kidd, Christof Koch, Luis Lamb, Fei-Fei Li, Adam Marblestone, Margaret Mitchell, Robert Osazuwa Ness, Judea Pearl, Francesca Rossi, Ken Stanley, Rich Sutton, Doris Tsao, Barbara Tversky. **Moderator and co-organizer:** Gary Marcus. Hashtag : #AIDebate2.

WebPage: <https://montrealartificialintelligence.com/aidebate2/>.

RSVP for the live streaming event at <https://aidebate.eventbrite.ca>.

1 Ryan Calo's Pre-Readings

Preliminary Remark Title at AI DEBATE 2: *Artificial Intelligence Policy: Not Just A Matter of Principles*
Artificial Intelligence Policy: A Primer and Roadmap, Ryan Calo, 2017: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3015350
Homepage: <https://twitter.com/rcalo>

2 Yejin Choi's Pre-Readings

Preliminary Remark Title at AI DEBATE 2: *Commonsense AI: Cracking the Longstanding Challenge in AI*
Keynote at the Stanford Human-Centered AI (HAI) Conference on Triangulating Intelligence: Melding Neuroscience, Psychology, and AI: <https://www.youtube.com/watch?v=19ZaK0IzsVY?t=1680>
Homepage: <https://homes.cs.washington.edu/~yejin/>

3 Celeste Kidd's Pre-Readings

Preliminary Remark Title at AI DEBATE 2: *Profound impacts of AI (and its biases) on human beliefs*
The Psychology and Neuroscience of Curiosity, Kidd and Hayden, Neuron, 2015: <http://www.celestekidd.com/>

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papers/KiddHayden2015.pdf.
Homepage: www.kiddlab.com

4 Luis Lamb's Pre-Readings

Preliminary Remark Title at AI DEBATE 2: *Neurosymbolic AI: The 3rd Wave*

Neurosymbolic AI: The 3rd Wave, Artur d'Avila Garcez and Luis Lamb, 2020: <https://arxiv.org/abs/2012.05876>.

Homepage: <http://www.inf.ufrgs.br/~lamb>

5 Adam Marblestone's Pre-Readings

Preliminary Remark Title at AI DEBATE 2: *Leveraging neuro-technology for AI*

Toward an Integration of Deep Learning and Neuroscience, Marblestone et al., 2016: <https://www.frontiersin.org/articles/10.3389/fncom.2016.00094/full>.

Homepage: www.adammarblestone.org

6 Gary Marcus's Pre-Readings

Preliminary Remark Title at AI DEBATE 2: *The Next Decade in AI*

The Next Decade in AI: Four Steps Towards Robust Artificial Intelligence, Gary Marcus, 2020: <https://arxiv.org/abs/2002.06177v3>.

Homepage: <http://rebooting.ai/>

7 Francesca Rossi's Pre-Readings

Preliminary Remark Title at AI DEBATE 2: *Thinking Fast and Slow in AI: Towards more general and trustworthy AI*

Thinking fast and slow in AI (AAAI blue-sky ideas track, 2021), Booch et al., 2020: <https://arxiv.org/abs/2010.06002>.

8 Doris Tsao's Pre-Readings

Preliminary Remark Title at AI DEBATE 2: *How the brain builds a model of the world: insights from neuroscience*

The macaque face patch system: a turtle's underbelly for the brain, Janis K. Hesse and Doris Y. Tsao, 2020: <https://www.nature.com/articles/s41583-020-00393-w?proof=t>.

Homepage: <https://www.tsaolab.caltech.edu/>