

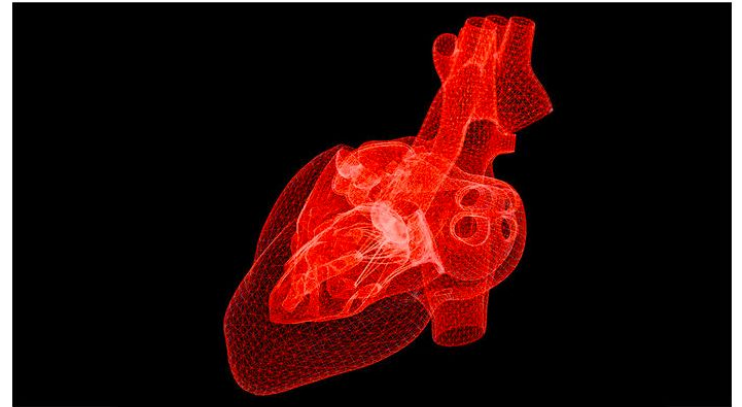


# WiMLDS Melbourne Meetup

August 2018

# Where are we now & where are we headed?

Current status: Logistic Regression = Artificial Intelligence



Artificial intelligence may help prevent heart failure. DEVIRMB/ISTOCKPHOTO

Self-taught artificial intelligence beats doctors at predicting heart attacks

## Google's DeepMind AI is being taught to understand the thought-process behind the decisions of others just like a human

- DeepMind software can predict what other AIs will do in a virtual setting
- It can even understand whether they hold 'false beliefs' about an object
- This so-called 'theory of mind' is only found in humans, apes and some birds
- Google's AI may one day lead to robots that can think more like humans



BUSINESS INSIDER

TECH INSIDER

## This robot passed a 'self-awareness' test that only humans could handle until now



Celena Cho

Jul. 23, 2018

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**Skin cancer**

## Computer learns to detect skin cancer more accurately than doctors

Artificial intelligence machine found 95% of melanomas in study compared to 86.6% for dermatologists

COMPUTERS

## Facebook engineers panic, pull plug on AI after bots develop their own language



Mike Wehner [@MikeWehner](#)

July 31st, 2017 at 12:26 PM

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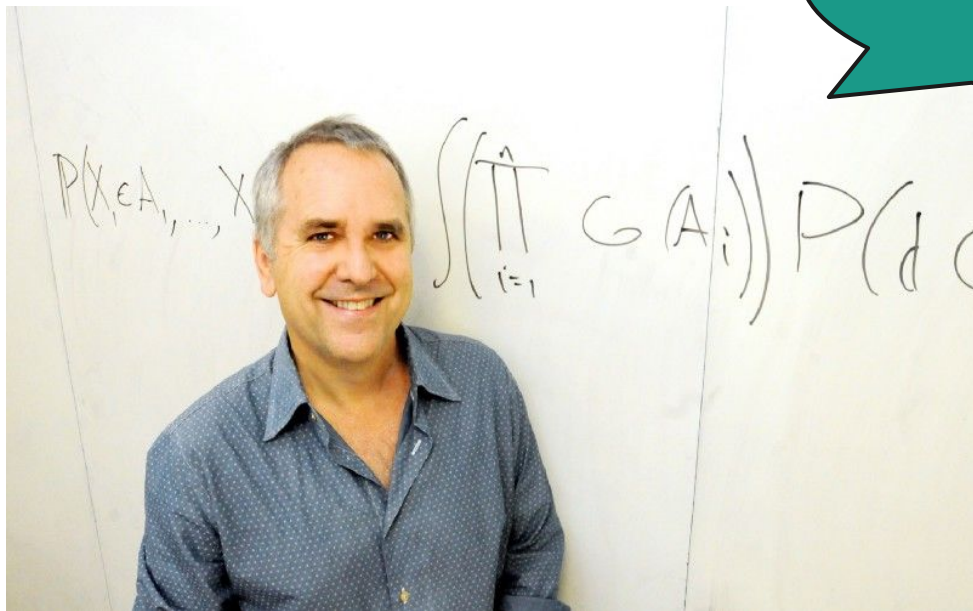
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As the world's most powerful computer systems begin to embrace artificial intelligence in earnest, using smart algorithms to increase efficiency and speed, the potential damage that a "rogue" AI could



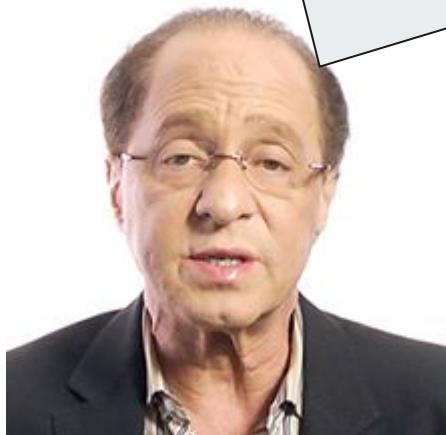
AI IS NOT MACHINE  
LEARNING!

Virginia Dignum



I REFUSE TO USE THE  
TERM "AI"

Michael Jordan

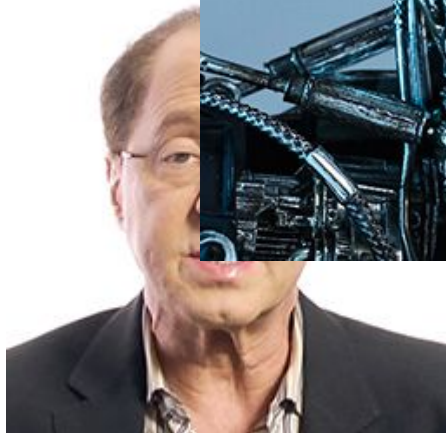


THE SINGULARITY IS NEAR!



ARTIFICIAL INTELLIGENCE COULD  
LEAD TO "AN IMMORTAL  
DICTATOR FROM WHICH WE COULD  
NEVER ESCAPE."





**Roko's  
Basilisk!!!!**



ICIAL IN  
LEAD TO "AN IMMORTAL  
DICTATOR FROM WHICH WE COULD  
NEVER ESCAPE."



Gary Marcus

WINTER IS COMING!



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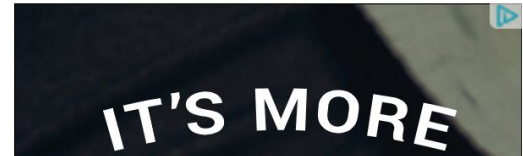
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**Google's DeepMind AI is being taught to understand the thought-process behind the decisions of others just like a human**

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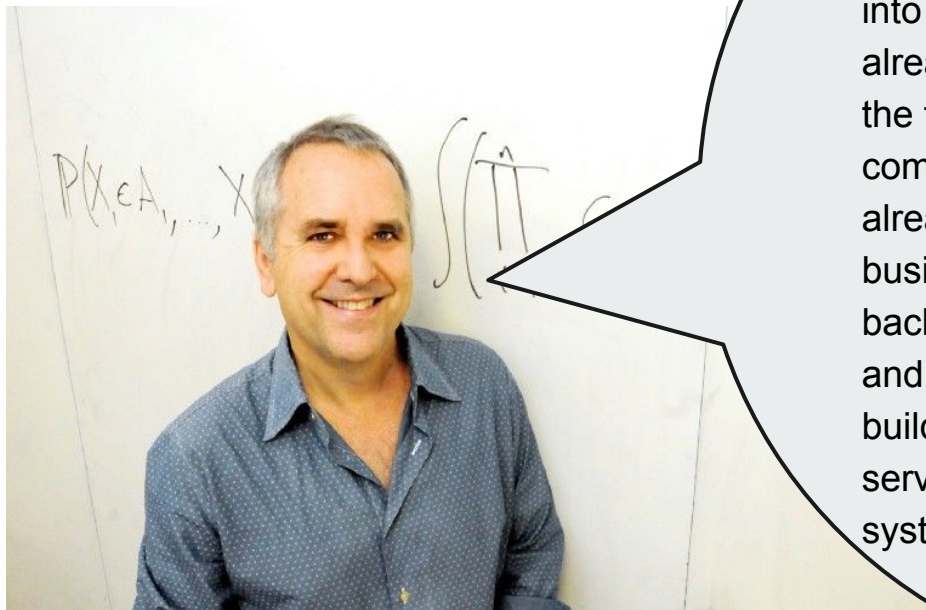
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## Google's DeepMind AI is being taught to understand the thought-process behind the decisions of others just like a human

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Michael Jordan

In terms of impact on the real world, ML is the real thing, and not just recently. Indeed, that ML would grow into massive industrial relevance was already clear in the early 1990s, and by the turn of the century forward-looking companies such as Amazon were already using ML throughout their business, solving mission-critical back-end problems in fraud detection and supply-chain prediction, and building innovative consumer-facing services such as recommendation systems.



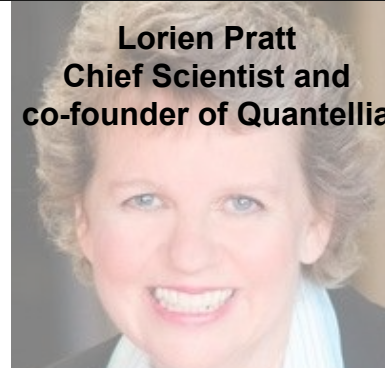




**Hilary Parker**  
Data Scientist, Stitch Fix



**Fei Fei Li**  
Director of the Stanford  
AI Lab



**Lorien Pratt**  
Chief Scientist and  
co-founder of Quantellia



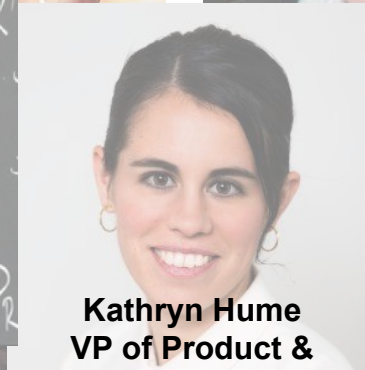
**Kate Crawford**  
Principal Research at MSFT,  
Co-founder of AI Now Institute



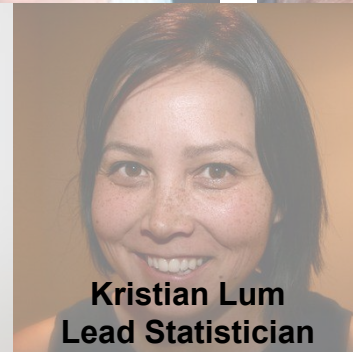
**Joanna Bryson**  
CS Professor at  
University of Bath



**Angela Bassa**  
Director of Data  
Science, iRobot



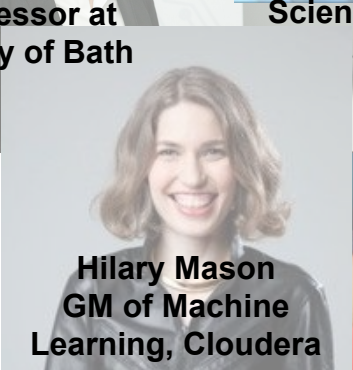
**Kathryn Hume**  
VP of Product &  
Strategy, Integrate.ai



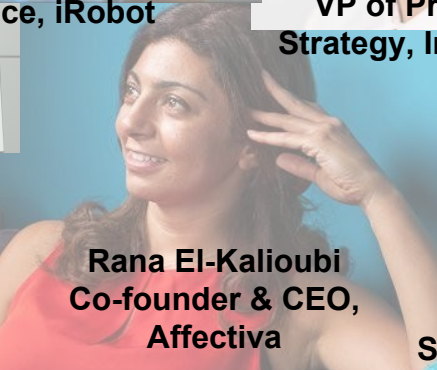
**Kristian Lum**  
Lead Statistician  
HRDAG



**Juliet Hougland**  
Data Platform Engineering  
Manager, Stitch Fix



**Hilary Mason**  
GM of Machine  
Learning, Cloudera



**Rana El-Kalioubi**  
Co-founder & CEO,  
Affectiva



**Claudia Perlich**  
Sr Data Scientist, Two Sigma



**Ayanna Howard**  
Robotist, Georgia Institute of  
Technology



# Links

- Michael Jordan's essay "Artificial Intelligence — The Revolution Hasn't Happened Yet": <https://medium.com/@mijordan3/artificial-intelligence-the-revolution-hasnt-happened-yet-5e1d5812e1e7>
- Virginia Dignum's post "What we talk about when we talk about Artificial Intelligence": <https://medium.com/@virginiadignum/what-we-talk-about-when-we-talk-about-artificial-intelligence-13423a294160>
- Kate Crawford's NIPS talk "The Trouble With Bias": <https://www.youtube.com/watch?v=ggzWlipKraM>
- Not So Standard Deviations podcast: <http://nssdeviations.com/>
- This Week in Machine Learning and AI podcast: <https://twimlai.com/>