

Western Institute ^{for}Advanced Study

2022

Annual Report

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2022 Leadership Growth

Board of Directors



Izi Stoll

Nathan Cassell

Phylecia Jones

The Board of Directors wishes to thank our outgoing Directors, Amy Farrar and Philip Tilker, for their three years of service to the Western Institute for Advanced Study.

The Board of Directors also wishes to thank our new Board of Governance Advisors: Jason Palmer, General Partner, New Markets Venture Partners James Wang, General Partner, Creative Ventures Patrick Kohl, Physics Professor, Colorado School of Mines Matt Champion, Chief Marketing Officer, Breinify Digital Marketing Matt Elkin, Non-Profit Attorney, Baker Hostetler Law Advisors Steve Taylor, Certified Public Accountant, Taylor Roth Accounting Advisors

And the Board of Directors also wishes to thank our new Board of Scientific Advisors: Yasunori Nomura, Professor of Theoretical Physics, University of California Berkeley Steven Zeichner, Professor of Pediatric Infectious Disease, University of Virginia Ramesh Srinivasan, Professor of Cognitive Sciences, University of California Irvine

2022 Institute Successes

Our successes this year include:

- Getting deals on software platforms to support our operations.



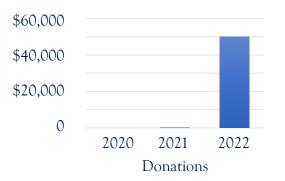
- Creating non-profit web profiles to increase visibility to the public.

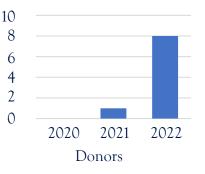


- Increasing web traffic by 111% over the previous year.



- Merging our funding strategy with our scientific mission.





2022 Scientific Progress

T research papers posted on bioRxiv A thermodynamical model of non-deterministic computation in cortical neural networks.

Random electrical noise drives non-deterministic computation in cortical neural networks.

The mechanics underpinning non-deterministic computation in cortical neural networks.

Modeling electron interference at the neuronal membrane yields a holographic projection of representative information content.

3

conferences attended

2 collaborations initiated

1 Grand Challenge completed

SOCIETY for NEUROSCIENCE



pre-print

pre-print

pre-print

pre-print



Asger Kirkeby-Hinrup

Michiel van der Vlag

AKH works at the intersection of philosophy and neuroscience. MAV works at the intersection of neuroscience and computation. Both are actively evaluating our new theory of consciousness.

Thanks to our sponsors!

We look forward to continuing our efforts to tackle intractable problems in science, with your support.

2022 Financial Support

Donor Appreciation

The Board of Directors wishes to thank our amazing donors, who make our continued research efforts possible. Our donors this year include:

Bala Parthasarathy, Founder and Managing Partner, Prime Ventures Jason Palmer, General Partner, New Markets Venture Partners Dave Parker, Founder and CEO, Benchmark Wine Group Patrick Kohl, Physics Professor, Colorado School of Mines Amy Farrar, Family Physician, Kaiser Permanente Philip Tilker, Senior Software Developer, Amazon Logistics

Thank you for your incredible support!

