

CONSCIOUSNESS
KEY

APRIL 17TH
2022
PORTO | PORTUGAL

consciousness_key

INTERNATIONAL CONFERENCE

www.consciousnesskey.net



Dear Reader

Our community is growing and becoming more vibrant every single day. Consciousness Key's ultimate goal is to reach everyone around the world.

At CONSCIOUSNESS KEY you find a global group of like-minded people, and future partners, with new perspectives and an unshakeable hope to improve our current standards. Your collaboration and participation in our events is a key part of our strategy. Together we believe we will have a global impact.

This year's event is reaching people from several countries worldwide. We would like to thank you, and let you know that we consider you as part of the CONSCIOUSNESS KEY' community. We are beyond grateful for your support, and we hope we can have you even more involved with our group. We have so much to achieve together.

On behalf of the entire team of CONSCIOUSNESS KEY, we would like to end this letter with a profoundly sincere "Thank You"... We are honoured to have you with us... Together we will accomplish our most ambitious goals.

Thank you,

Consciousness Key Team



Our Vision

CONSCIOUSNESS KEY provides people around the world the opportunity to hear the most remarkable leaders in the field. Our purpose is to empower everyone to join our efforts, and to provide everyone with the opportunity to learn from the top leaders in the field.

It is our mission not only to educate everyone, but also to serve as a platform where everyone can have an active role on making the future a reality.

It is our goals to inspire and empower each participant to become an active

agent. We believe that everyone around the world will be able to have a contribution for our common goals.

Regardless of where each participant lives, we are bringing everyone online, giving everyone the opportunity to participate in changing the current status quo, and giving everyone the opportunity to join this global effort, affordably, easily, and comfortably.

Our mission is to empower everyone to join our goals, by educating, and providing the proper tools for action, as well as by providing orientation and mentorship from the best in the world. **We believe we make the world a better place... together...**





Program Overview

MORNING
(EST Time)

09:00am - REGISTRATION

09:15am - OPENING SPEECH

09:30am - TALK
Monash University

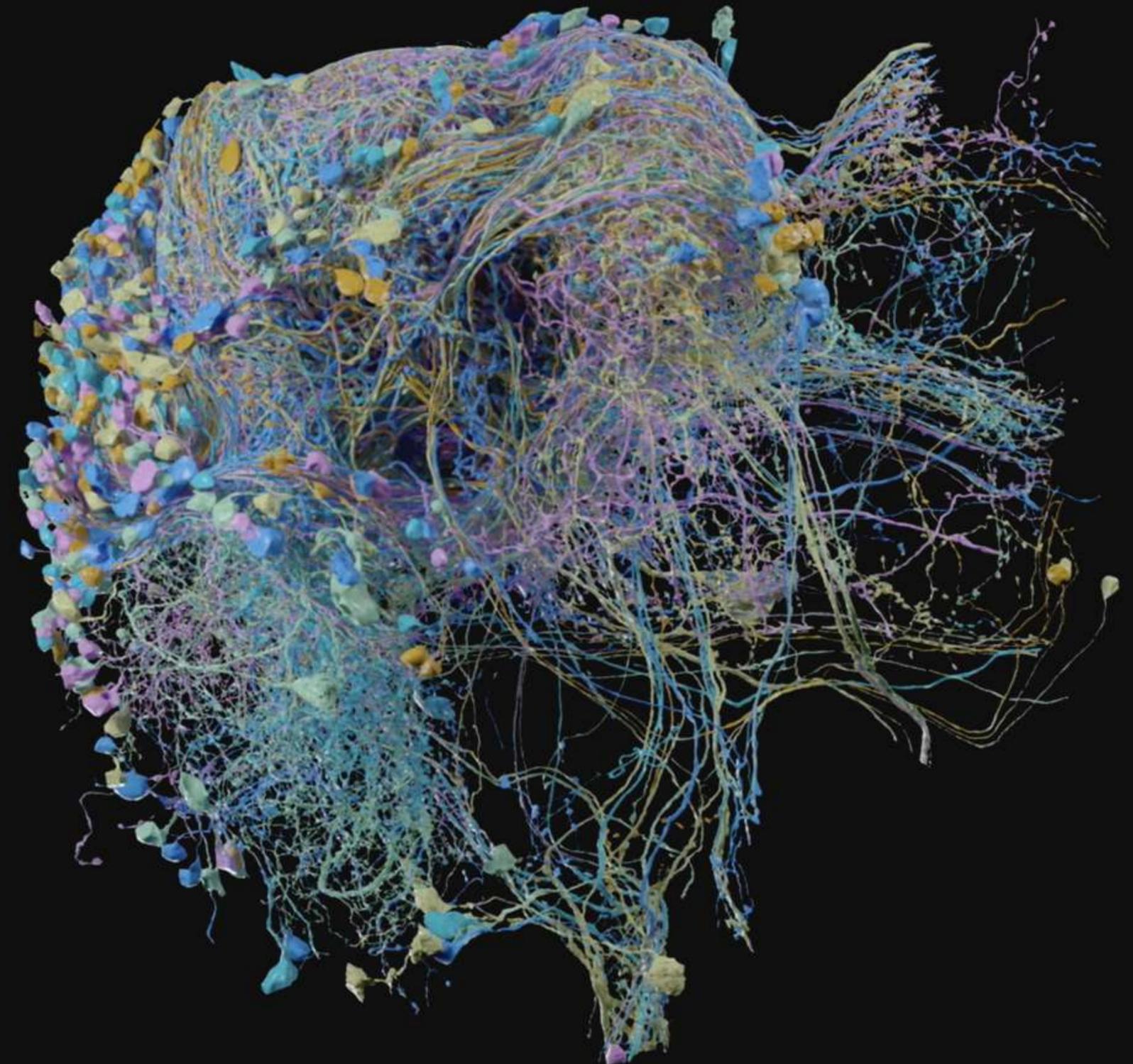


NAO TSUCHIYA, PH.D.
[View Speaker »](#)

10:00am - TALK
Yale University



KATRIN PRELLER
[View Speaker »](#)



MORNING
(EST Time)

10:30am - TALK

EDL - Exponential Design Lab



GIORGIO GAVIRAGHI

[View Speaker »](#)

11:00am - TALK

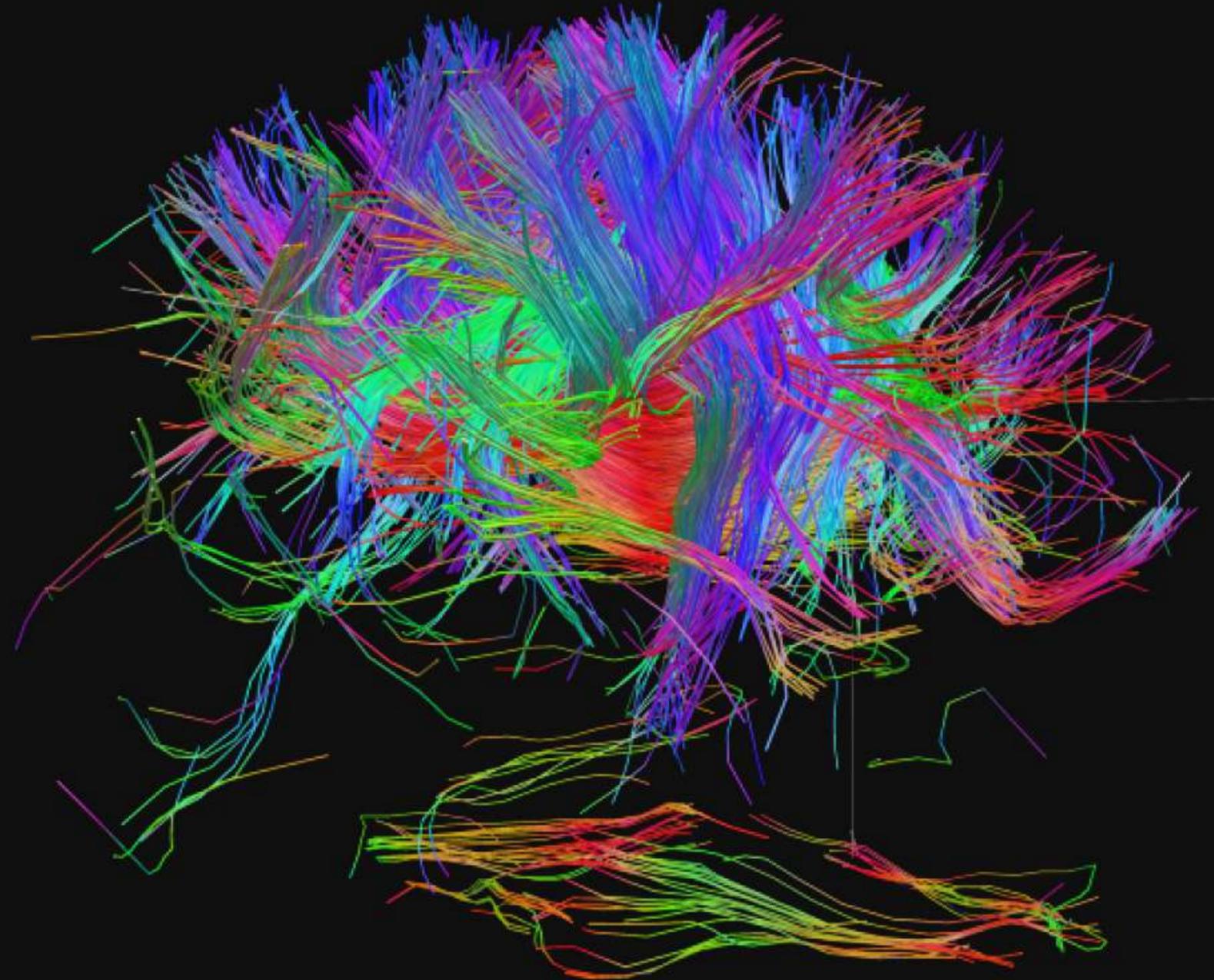
Neuronanotechnology

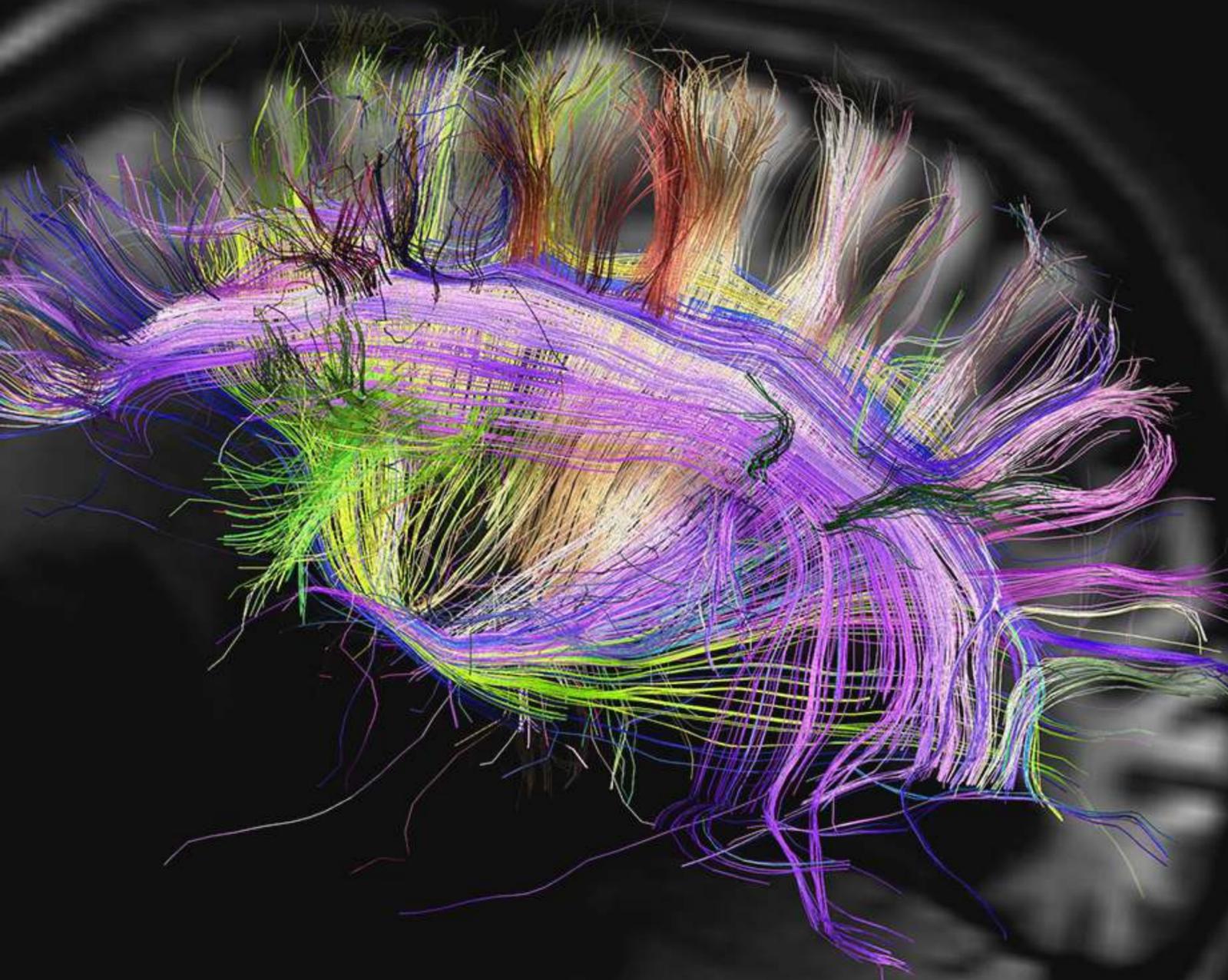


NUNO MARTINS, PH.D

[View Speaker »](#)

11:30am - LUNCH AND NETWORKING





FELIX
SCHOLKMANN, PH.D.
[View Speaker »](#)



02:30pm - TALK
University of Zurich

CARLOS
MONTEMAYOR, PH.D.
[View Speaker »](#)



03:00pm - TALK
San Francisco State University

JOHN PERRY, PH.D.
[View Speaker »](#)



03:30pm - TALK
Stanford University

AFTERNOON
(EST Time)

04:00pm - PANEL

FELIX
SCHOLKMANN, PH.D.

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JOHN
PERRY, PH.D.

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CARLOS
MONTEMAYOR, PH.D.

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NUNO
MARTINS, PH.D.

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GIORGIO
GAVIRAGHI

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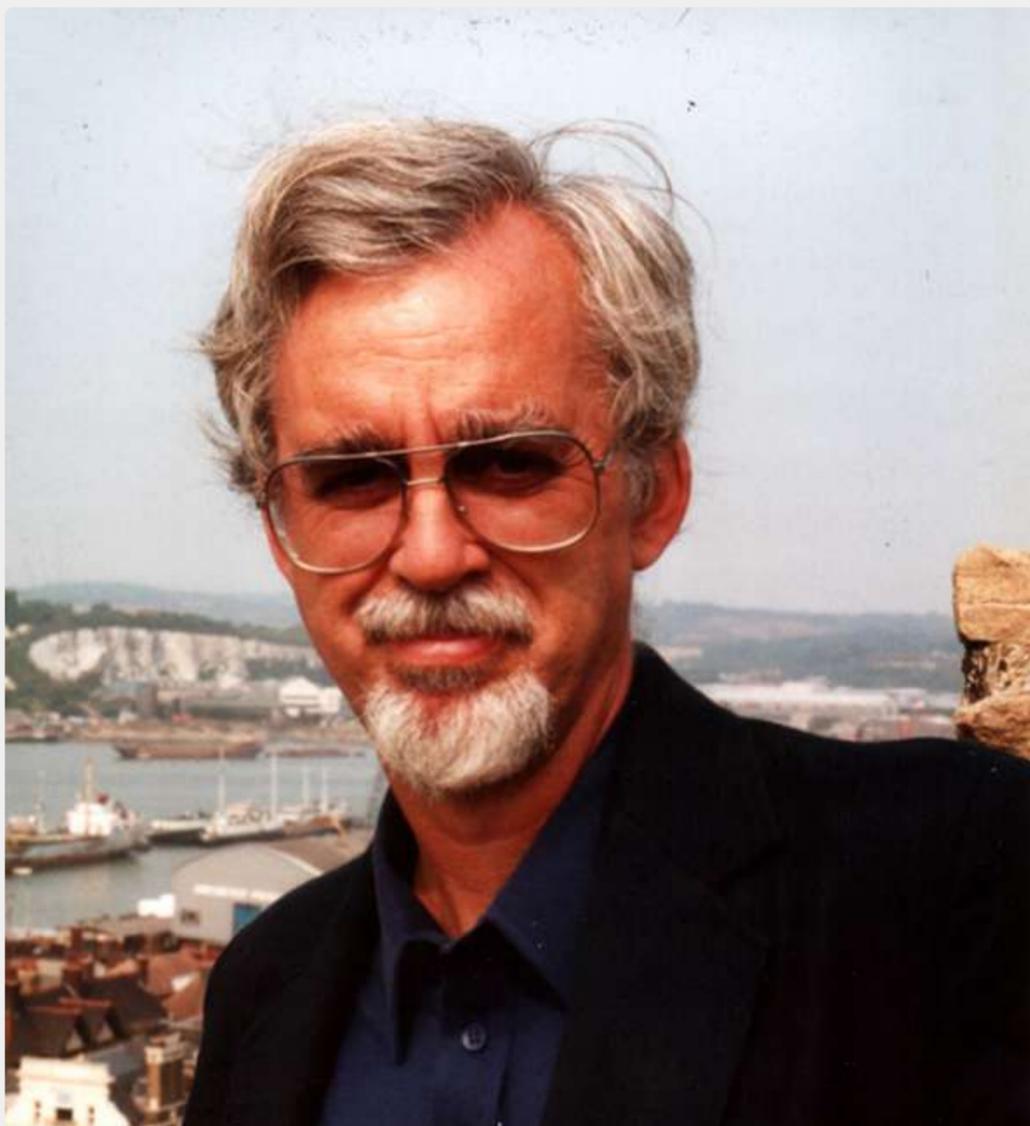
STEVEN A.
GARAN, PH.D.

[View Speaker »](#)



05:00pm - CLOSING CEREMONY

Speakers



Henry Waldgrave Stuart Professor of Philosophy Emeritus at Stanford University.

John Perry, Ph.D.

John Perry is Henry Waldgrave Stuart Professor of Philosophy Emeritus at Stanford University, and co-director of the CEC at CSLI. His research interests include philosophy of language,

philosophy of mind and pragmatics. He has authored several books, including most recently, *Reference and Reflexivity*.



Professor of Philosophy at San Francisco State University.

Carlos Montemayor, Ph.D.

My PhD in Philosophy with a Certificate in Cognitive Science is from Rutgers University. I joined the faculty at San Francisco State University in the summer of 2009, and I am currently Professor of Philosophy. My research focuses on the intersection between philosophy of mind, epistemology and cognitive science. For an overview of my research, here is my interview with Richard Marshall at 3:16.

My book “Minding Time: A Philosophical and Theoretical Approach to the Psychology of Time” offers an account of time perception that takes into consideration the scientific findings on psychological time-keeping mechanisms and simultaneity windows. It also argues that time perception is analog. [NDPR Review](#). [Brill Site](#).

I co-wrote a book, with H. H. Haladjian, on

consciousness and attention, with MIT Press: *Consciousness, Attention, and Conscious Attention*; This is a review of the book in [NDPR](#).

I co-authored a book, with Abrol Fairweather, on the nature of epistemic agency, epistemic abilities and attention, with Cambridge University Press. Here is a review of: *Knowledge, Dexterity, and Attention*.

A recently co-edited volume on issues in quantum mechanics and philosophy of mind, with Acacio de Barros, has been published by Synthese. It includes a Foreword by Roger Penrose : *Quanta and Mind*.

Once upon a time, I obtained a JD (Law Degree) from Universidad Nacional Autónoma de México. My thesis, on human rights, was published by Porrúa, and was reviewed here (in Spanish).



Professor at Monash University.

Nao Tsuchiya, Ph.D.

Dr Tsuchiya was awarded a PhD at California Institute of Technology (Caltech) in 2006 and underwent postdoctoral training at Caltech until 2010. Receiving a PRESTO grant from Japan Science and Technology (JST) agency, Dr Tsuchiya returned to Japan in 2010. In Jan 2012, he joined the School of Psychological Sciences at Monash University as an Associate Professor (and as a Professor since 2020).

His main research interest is to uncover the neuronal basis of consciousness. Specifically, he focuses on:

1) the scope and limit of non-conscious processing,

2) the relationship between attention and consciousness, and 3) the neuronal correlates of consciousness by analysing the multi-channel neuronal recording obtained in animals and humans and 4) testing a theory of consciousness, in particular, integrated information theory of consciousness.

Through interdisciplinary collaborations, he uses a variety of research approaches, ranging from empirical (lab-based or online-based psychophysics, neuroimaging), computational (information theoretic/causal analyses/modeling of neural activity), to theoretical (including conceptual analysis and category theory) methods.



Director of Bioinformatics at CREA and serves on its Advisory Board.

Steven A. Garan, Ph.D.

Steven A. Garan is the Director of Bioinformatics at CREA and serves on its Advisory Board, he is also a researcher at the Lawrence Berkeley National Laboratory. While at the University of California, Berkeley, he played a major role in the invention and the development of the Automated Imaging Microscope System (AIMS). While at UC Berkeley, Garan collaborated for many years with a group from Paola S. Timiras's lab, on the role that caloric restriction plays in maintaining estrogen receptor-alpha and IGH-1 receptor immunoreactivity in various nuclei of the mouse hypothalamus. Garan was also the director of the Aging Research Centre, and is a leading scientist in the field of aging research. His numerous publications, include articles on systems biology, the effects of caloric restriction on the mouse hypothalamus and on the Automated Imaging Microscope System (AIMS). He is best known for the coining of word "Phenomics", which was defined in an abstract titled: "Phenomics: a new direction for the study of neuroendocrine aging", that was published in the journal *Experimental Gerontology*.

Steven A. Garan, was the lead scientists that developed the AIMS system along with Warren Freitag, Jason Neudorf and members of the UC

Berkeley lab where AIMS was developed and utilized. Many journals articles have been published about the system and the results that it produced. Since the completion of the first version in 1998, newer versions were developed, with the final version being completed in 2007. Empowering investigators to accurately count specific cell populations is essential to all fields of neurobiology. While computer assisted counting technology has been in use for over a decade, advances in an Automated Imaging Microscope System (AIMS), now insure 97% accuracy when comparing computer counts to human counts for both nuclear and cytoplasmic stained tissue. More importantly, regional analysis can now be customized so that only cell populations within specified anatomic regions will be targeted for counting, thus reducing the background noise of non-immunoreactive cells when characterizing specific cell populations. This application was recently used to successfully map the density and distribution of both nuclear expressed estrogen receptor-alpha and cytoplasmically expressed IGF-1 receptor in specific hypothalamic nuclei. Furthermore, AIMS can now detect intra-hypothalamic differences in receptor expression and measure phenomenon such as lateralization. By using this technology, the evaluation of tissue-level biology can be used to establish neuroendocrine biomarkers of aging, and analyze the neuroendocrine effects of caloric restriction and gene knockout models that extend the lifespan.



Polymath, researcher, entrepreneur, and a healthy life extension advocate.

Nuno Martins, Ph.D.

Nuno is a polymath, a researcher, an entrepreneur, and a life and health extension advocate. As a polymath, he usually likes to make use of different subject areas, drawing ideas and concepts from different bodies of knowledge to solve specific problems.

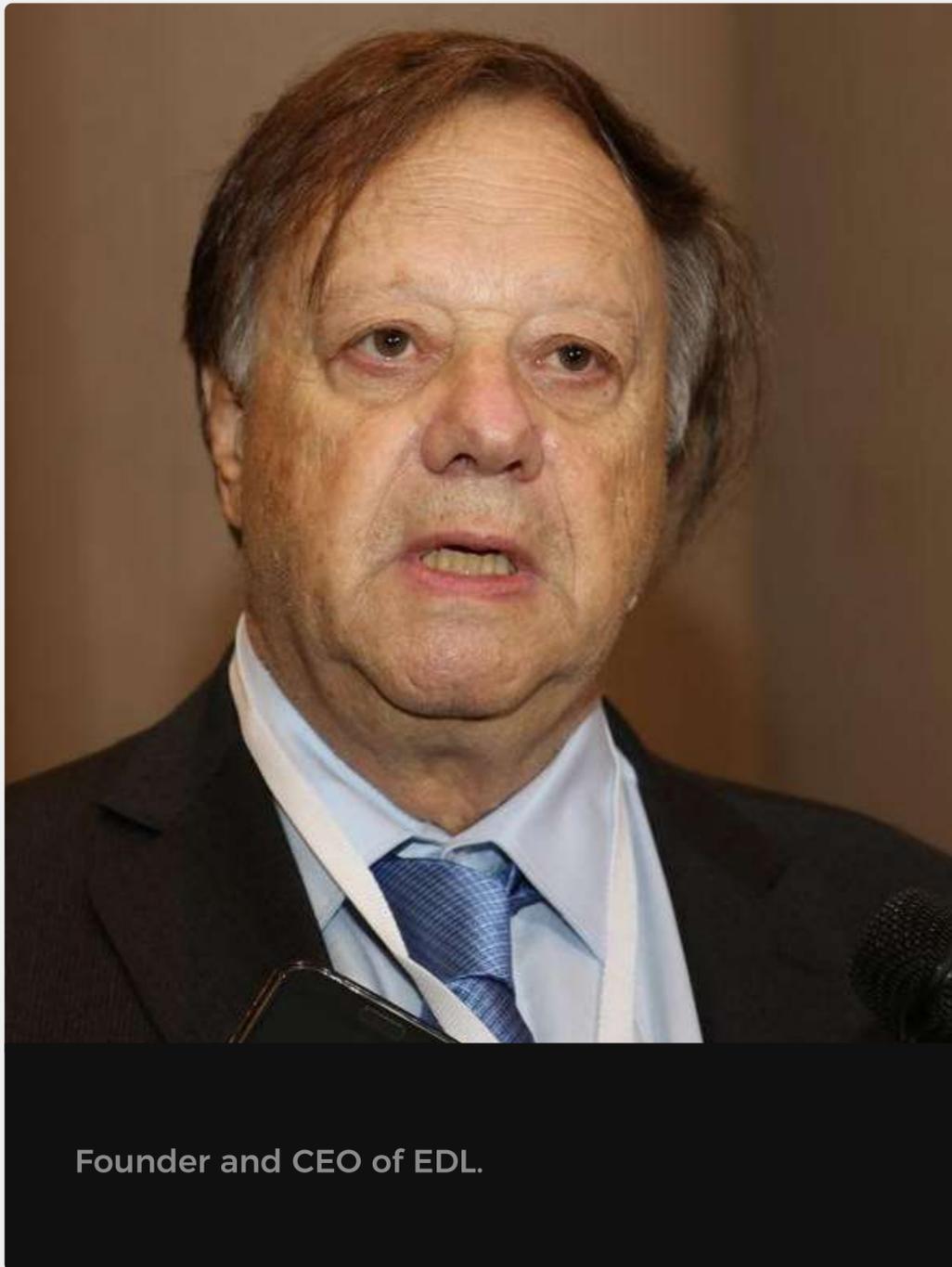
As an illustrative example, his published papers involve several fields of research, for example: quantitative neuroscience, computer science, nanotechnology, robotics, and others. Several previous education experiences have supported and nurtured his polymath approach to problems. As a researcher, he is interested in any scientific, engineering, or technological development with potential applications or consequences for healthy life extension. Along these lines, he is currently a focused on developing technologies for human healthy life extension.

In business, he created his own company to fund his education. Along the way, several academic awards and grants contributed to his necessary funding strategy. The growth of his original company permitted him to create a business group embracing a set of different companies that operate

in a large spectrum of business sectors, including: business consulting, education, information technologies, healthcare services, online sales, and several others.

On life extension related topics, early in his life, motivated to take control of his own health he decided to make several courses related to health-care, body training and nutrition. Thus, he completed several courses related to life and health care, for example, he is a swimming teacher, a professional tennis teacher, a body-building and aero- fitness teacher, a power-lifting professor, and he completed also several courses in nutrition and sleep optimization.

As public speaker Nuno participates in conferences and meeting providing high quality professional presentations in his style. One of Nuno's public appearances was on a groundbreaking large conference (attended by approximately one thousand attendees), where Nuno presented along with amazing celebrities, such as: the visionary billionaire Peter Nygard, the always inspiring Suzanne Somers, and the famous futurist Ray Kurzweil, among many other celebrities... Nuno makes easy the understanding of technical challenging subjects , making accessible to the general audience the most difficult problems.



Founder and CEO of EDL.

Giorgio Gaviraghi

Giorgio Gaviraghi received his Architectural degree from the Milan Polytechnic. He has since taken part in a number of graduate courses in management, marketing and design in several major universities.

At first as Project Architect, later as Project Manager, where he was responsible to deal with international projects for the Austin Co. an international design and construction company, he has built a distinguishable career across the globe. He has acted as CEO for international companies operating in Europe, the US, Latin America and the Middle East in the field of design and construction, aerospace facilities, real estate and touristic resorts development.

In several capacities he was responsible for major initiatives, some worth over 5\$US, such as the design and project management for the reconstruction of thousands of buildings damaged by the Friuli earthquake, an aerospace facility for commercial aircraft final assembly for Aeritalia – Boeing, an aircraft overhauling facility for HAI in

Greece, advanced testing facilities for SDI initiative in the US, high rises buildings in New York, several touristic resorts in Sardinia and the Red Sea region.

An achiever of international competitions in innovative products and systems for industrial design. Giorgio has specialized in space architecture for advanced projects and proposals for major space agencies. Winning as tutor for college and high school students over 18 prizes in international space settlements and space related projects.

Partner of the MAAT project consortium for revolutionary airship-based air transportation system sponsored by the EU. Founder of the Star Voyager organization for the advancement of space development and interstellar travel.

Founder and CEO of edl (exponential design lab) in Latin America specialized in advanced and global projects. Author of over 80 papers ranging from space, transportation, city planning, design and other topics, including authoring articles and books, the latter Global Challenges by Lambert Pub.

Delivered several courses at universities in Europe and Latin America. Actually professor at UFMT in Brazil, teaching Exponential Creativity a disruptive post graduate course.



Researcher at Biomedical Optics Research Laboratory, University Hospital Zurich, University of Zurich.

Felix Scholkmann, Ph.D.

Felix Scholkmann is lecturer at the University of Zurich, Switzerland, and member of the biomedical optics research laboratory at the University Hospital Zurich as well as researcher at the University of Bern. His main research focus is optical neuroimaging but he also works on different

research topics in the field of biophysics, biomedical signal-processing and human physiology. He is also interested in the topic "consciousness" from a neuroimaging point of view as well as an introspective and experience-based one.



Researcher at Roche, Yale University / University of Zurich

Katrin Preller

Katrin Preller received her PhD in Psychology and Neuroscience from University of Zurich, Switzerland in 2013. Her research interests are centered around the neuropharmacology of emotional and cognitive processes such as social cognition in health and psychiatric illnesses, as well as (pharmacological) neuroimaging analysis methodology. She is

particularly interested in substance use disorders as well the role of the serotonin system in emotion and cognition. To elucidate the role of 5-HT_{2A/1A} receptor functions in human cognition she uses pharmacological challenges mainly with psilocybin and LSD.

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