

CHEN TIANQIAO & CHRISSY INSTITUTE



A letter from Tianqiao Chen & Chrissy Luo

2023 was a banner year for the Chen Institute with the expansion of existing programs, the creation of new initiatives, and the establishment of important new partnerships and programs.

In 2023, we decided to draw attention to the incredible potential of artificial intelligence to accelerate the pace of science. We built out our own internal AI team, supported AI focused conferences, and organized our own AI-focused meetings. We were also excited to organize a prize with Science Magazine that recognizes innovative applications of AI in scientific research. The "<u>Chen Institute & Science Prize for AI Accelerated Research</u>" will be awarded in 2024.

Another important theme for us was partnership and we were happy to announce a new training program with the Society for Neuroscience. We created the FENS Chen Institute NeuroLéman Summer Schools in Switzerland, and also established new partnerships with the French Neuroscience Society and the International Society for Stem Cell Research (ISSCR).

Finally, in recognition of the critical role played by physician scientists, we were thrilled to announce the "<u>Chen Institute Scholars</u>" Program to provide critical financial and professional support to early- and mid-career physician scientists. The new multimillion program starts with the participation of three prominent research hospitals including Massachusetts General Hospital, the largest hospital-based research program in the U.S., which has already named four Chen Institute Scholars, along with the University California, San Francisco and Mayo Clinic.

Thank you for your continuing support and interest. We look forward to continuing success in 2024.

Sincerely

Tianqiao Chen

Chrissy Luo

Our Vision

Improving the human experience by understanding how our brains perceive, learn and interact with the world.

Using AI and other cutting-edge technologies to advance brain research focused on:

- Understanding the sensation-perception mechanisms and related systems of memory, attention, learning and expectations.
- Advancing discoveries and applications that minimize the negative and enhance the positive impact of perceptions.

The ability to shape and refine perception will help us better understand our world, be it through more targeted therapies to alleviate negative psychological states such as depression or seamless brain-machine interfaces to enhance the utilization of mental capacity and capabilities.

Our Priorities

Leveraging the power of AI to accelerate fundamental research into brain function and how perceptions are formed.

We are committed to bringing together the world's most talented researchers across biology, chemistry, engineering, mathematics, physics, the humanities and the social sciences. Armed with sophisticated AI tools, they investigate the complex interactions governing sensation, perception and cognition. We have three core areas of interest:

Brain discovery

Our primary focus is interdisciplinary research in basic sciences to understand the brain at the level of the individual neuron and synapse. We support research that will deepen understanding of how the brain gathers, organizes and retains information, and translates perceptions into thoughts, emotions, decisions, actions and memories.

Brain treatment

We seek to translate improved understanding of brain mechanisms and processes into breakthroughs in the treatment of physical and psychological suffering.

- Mental disorders which can seriously impair cognitive abilities and affect one's ability to cope with life such as anxiety issues, mood disorders, chronic pain, and schizophrenia.
- The second is neurodegenerative diseases and aging brain.

Brain Augmentation

An acute understanding of fundamental brain processes offers multiple windows of opportunity to leverage and enhance brain capacity, with three areas of focus:

- The relationship and interaction between the brain and machine.
- Neural interfaces that can augment human capabilities.
- Third, research into neural mechanisms, cognition architectures and brain machine interfaces can lead to new insights in artificial intelligence.



Chen Institute and Science Prize for AI Accelerated Research





The Chen Institute recognizes the potential of artificial intelligence to accelerate and expand scientific research. To encourage AI advancements and promote breakthroughs in the field we announced a new prize organized in partnership with Science Magazine which will kick off in June 2024.

The "Chen Institute and Science Prize for AI Accelerated Research" aims to foster innovation and celebrate advancements that have the potential to transform research and ultimately improve lives. Young scientists from across the globe are invited to showcase their AI-driven projects, solutions, and ideas.

Applicants will submit an essay describing work they've done using AI to accelerate any type of scientific research (it doesn't have to be neuroscience). If the work has not yet been done, applicants will describe in detail their proposed approach.

Learn more about the prize at **www.cheninstitute.org/prize**.







Chen Frontier Lab

Chen Frontier Labs are unique interdisciplinary R&D laboratories that form a central component of the philanthropic activities of the Tianqiao and Chrissy Chen Institute. Each Chen Frontier Lab operates with a distinct topical focus but they are united by a vision to improve humanity by solving important problems of the brain and mind.



Vision

To enrich people's lives with brain- and mind-related technology.



Mission

To build the world's first laboratory focused on identifying, validating, and incubating neuroscience research.

Tianqiao & Chrissy Chen Investigators

Tianqiao & Chrissy Chen Investigators are accomplished academic experts who help to advance the Chen Frontier Labs' exciting mission by contributing their leadership and expertise.

TCCI Researchers



Dezhong Yao

Professor and Dean of School of Life Science and Technology, Chengdu University of Technology (2001-2017)

President, Sichuan Institute for Brain Science and Brain-inspired Intelligence (2018-to date)

Ph.D. Supervisor of 50+ Ph.D students

5 publications and 300+ journal papers

Fellow, American Institute for Medical and Biological Engineering (AIMBE)

Roy John Award recipient, EEG and Clinical Neuroscience Society (ECNS)



Jianhua Chen

Chief Physician, Research Professor, and Ph.D. Supervisor at the Shanghai Mental Health Center

Vice Chairman, Youth Committee of the Chinese Medical Association's Psychiatric Branch

Focusing on mental and somatic comorbidity

100+ published academic papers

China's Outstanding Young Psychiatrists

Shanghai Outstanding Academic Leader

Shanghai Top Young Talents

Shanghai Outstanding Young Medical Professionals



Zhiguo Wang

Research Professor, Zhejiang University

Ph.D, Graduate University of Chinese Academy of Sciences

Focusing on topics related to computer vision, social robots, eye movements, working memory, spatial attention, and developmental disorders

40+ published research papers

Cornerstone Partnerships

The Tianqiao and Chrissy Chen Institute for Neuroscience at Caltech

The Tianqiao and Chrissy Chen Institute for Neuroscience at Caltech, founded in 2016, brings together a cross-disciplinary team of scientists and engineers to investigate one of today's greatest challenges and opportunities: understanding the brain and how it works. In late 2021, the Institute added a Center for Data Sciences and AI, reflecting the importance of incorporating this technology into its research.



Visit the Caltech Website

In the News in 2023

Viviana Gradinaru Named Director of the Merkin Institute

<u>Two TCCI for Neuroscience Affiliated Biologists at Caltech Named Freeman Hrabowski Scholars</u> by the HHMI

Tianqiao and Chrissy Chen Institute for Translational Research

The Tianqiao and Chrissy Chen Institute for Translational Research was established in April 2018 in partnership with the Shanghai Zhou Liangfu Medical Development Foundation and Fudan University-affiliated Huashan Hospital. Shanghai Mental Health Center then joined the alliance which focuses on brain disease research and strengthening translational research between clinical and fundamental research.



In the News in 2023

<u>TCCI Hosts Global Competition for Universities to Promote "AI for Brain Science" – First Stop at</u> <u>Tongji University</u>



Introducing the Chen Scholars Program

Transformative opportunities for aspiring scientists

Early in 2023, the Tianqiao and Chrissy Chen Institute announced the launch of the Chen Institute Scholars Program which provides critical financial and professional support to early- and mid-career physician scientists. The new multi-million program started with the participation of three prominent research hospitals including Massachusetts General Hospital, the largest hospital-based research program in the U.S., which has already named four Chen Institute Scholars, along with the University California, San Francisco and Mayo Clinic.

The program is designed to empower exceptional physician scientists around the world who are driven by the pursuit of scientific discovery and dedicated to making a profound impact in their chosen field of study.

These remarkable individuals work in a range of scientific areas related to the brain and mind including artificial intelligence, data science, and clinical research.

With a carefully curated selection of early- and mid-career scientists, we are creating a vibrant community built on collaboration and innovation. Chen Institute Scholars are provided with an essential mix of financial and professional support, so they are able to pursue groundbreaking research.

Physician Scientists



Jacqueline Clauss, MD, PhD

Chen Institute Mass General Neuroscience Transformative Scholar 2023-2025

Medical Director, Resilience Evaluation-Social Emotional Training Program

Staff Psychiatrist, First Episode and Early Psychosis Program

Instructor in Psychiatry, Harvard Medical School



Brian L. Edlow, MD

Chen Institute MGH Research Scholar 2023-2028 Neurocritical Care Faculty, Department of Neurology Director, Laboratory for NeuroImaging of Coma and Consciousness Associate Director, Center for Neurotechnology and Neurorecovery Associate Professor of Neurology, Harvard Medical School



Long Nguyen, MD, MS

Chen Institute Department of Medicine Transformative Scholar 2023-2025

Physician Investigator, Clinical and Translational Epidemiology Unit

Assistant Professor of Medicine and Gastroenterology, Harvard Medical School



Elaine Yu, MD, MSc

Chen Institute MGH Research Scholar 2023-2028 Physician Investigator, Endocrine Division

Associate Professor of Medicine, Harvard Medical School

Supporting Science Meetings & Conferences Around the World





Meeting Organizers We Work With

Listed here are some of the meeting organizers we are happy to support in order to facilitate scientific collaboration and information sharing.





Chen Institute Training Programs



Photo credit: 2023 FENS - Chen Institute - NeuroLéman Summer School

Boot Camp

The Chen Institute summer school program is meticulously designed to empower and equip aspiring young scientists with the foundational knowledge, hands-on experience, and collaborative skills essential to drive innovation and address the scientific challenges of tomorrow.

FENS – Chen Institute – NeuroLéman Summer School on "Motor control: from thought to action" July 2-8, 2023 in EPFL, Switzerland.

Browse the 2023 Summer School Meeting Reports





Photo credit: 2023 FENS - Chen Institute - NeuroLéman Summer School



Chen Science Writer Fellowship & TCCI Meeting Reports

The Chen Science Writer Fellowship supports early- to midcareer scientists and at the same time helps to extend the value of discussions taking place at science meetings and conferences by summarizing the conversation, highlighting key themes and promoting innovative research presentations. Chen Science Writers receive funding that goes towards entrance fees and travel.

Browse the Chen Institute's 2023 Meeting Reports

Science Education & Advocacy

TCCI® advocates for increasing support for fundamental brain science from other philanthropists, thought leaders and engaged members of the public. Scientists are making significant progress in unlocking the mysteries of the human brain, but more support is needed if we are to accomplish major breakthroughs.





Someone duct-taped a banana to a wall, called it art, and sold it for \$120k. What can neuroscience tell us about aesthetic experiences? Meet neuroscientist, stage director, and 2023 Osher Fellow, Dr. Indre Viskontas as she leads us on a journey into how our brains turn sensory perceptions into meaningful and moving experiences, that can motivate us to act in accordance with our values.



In late 2021, we created the Tianqiao and Chrissy Chen Science Initiative at The Huntington Library to support the renovation of the Beautiful Science public exhibition in the Dibner Hall. It will also support three Huntington science exhibitions starting in late 2024. The Initiative also supports the History or Medicine digitization project which allows the Library to reach new and larger audiences.

Watch the lecture



2023 Research



Detection of common EEG phenomena using individual electrodes placed outside the hair

Many studies over the past decades have provided exciting evidence that electrical signals recorded from the scalp (electroencephalogram, EEG) hold meaningful information about the brain's function or dysfunction.

lue	red	ora	nge	pu	irple	gree
ed	blue	gre	een	ora	inge	purpl
range	e bl	ue	red	gr	reen	purpl
urple	ora	nge	blu	le	gree	n re
reen	ora	nge	pur	ple	red	blu

Attention, Focus, and a High Risk of Alzheimer's

According to the National Institutes of Health, Alzheimer's affects more than 6 million Americans, mostly ages 65 and older. Though the neurological damage from the disease is irreversible, its progression can be slowed by early interventions such as exercise and nutrition regimens.



<u>Ultrasound Enables Less-Invasive Brain-</u> <u>Machine Interfaces</u>

Brain-machine interfaces (BMIs) are devices that can read brain activity and translate that activity to control an electronic device like a prosthetic arm or computer cursor. Many BMIs require invasive surgeries to implant electrodes into the brain in order to read neural activity.



Newly Discovered Brain Circuit Controls An Aversion to Salty Tastes

Having the right amount of sodium in your body is so crucial, in fact, that parts of your brain work hard to make sure you're getting the salt that you need. If you've ever been hit by a sudden craving for potato chips, that may have been your brain at work.



Successful deep brain electrode implantation for OCD patient

A neurosurgery team led by Chen Liang, to successfully perform deep brain electrode implantation for a young obsessive-compulsive disorder (OCD) patient at Shanghai Mental Health Center.



New marker for early diagnosis of Alzheimer's disease

An international, multicenter study led by Professor Jintai Yu, has found that increased volume of the sublateral ventricles is a genetic imaging marker of Alzheimer's disease, and can be used to predict the risk of Alzheimer's disease at an early stage, independent of traditional imaging markers such as hippocampal volume.



<u>New neurosurgical technique: deep brain tumor</u> <u>resection with 3D exoscopy</u>

A team led by Mao Ying, reported 25 cases of pineal region tumor resection with 3D exoscopy via infratentorial approach, which achieved satisfactory clinical outcomes.



Stanford Researchers Develop Molecularly Imprinted Polymers for Continual, Real-time Sensing of Dopamine for Health Monitoring

A team of researchers led by Professor Nicholas Melosh and Dr. Nofar Mintz Hemed in the Department of Materials Science and Engineering at Stanford University describe their innovative, dopamine-binding molecularly imprinted polymers (MIP) that have a limit of detection in the sub-nanomolar range and does not require as complex a fabrication process.



Unique evolutionary pathways during recurrence of different gliomas

Glioma recurrence has long plagued patients and neurosurgeons however with the development of molecular diagnosis of glioma, research recently published in the journal Nature, has become increasingly precise.



Drug Delivery Platform Uses Sound for Targeting

Chemotherapy as a treatment for cancer is one of the major medical success stories of the 20th century, but it's far from perfect. Anyone who has been through chemotherapy or who has had a friend or loved one go through it will be familiar with its many side effects



<u>"Invisible" Cell Types and Gene Expression</u> Revealed with Sequencing Data Analysis Improvement

In 2018, Caltech researchers identified thirstrelated neurons in the brain but faced challenges with single-cell RNA sequencing. A collaboration between Caltech's Yuki Oka lab and the University of Texas Southwestern Medical Center's Pool lab has now optimized this technique, recovering valuable data.



Reconstructing Music from Human Auditory Cortex Activity Using Nonlinear Decoding Models

Music is core to the human experience yet the precise neural dynamics underlying music perception remain unknown. A researcher of the Chen Frontier Lab for Neurotechnology was part of a team of researchers who analyzed a unique intracranial electroencephalography (iEEG) dataset of 29 patients who listened to a Pink Floyd song and applied a stimulus reconstruction approach previously used in the speech domain.



Huashan Hospital Maps Dementia Risk Factors; Active Interventions can Prevent 47%-73% of Dementia Cases

A study, recently published in the journal Nature Human Behavior (IF: 30) by the clinical research team of Prof. Yu Jintai from the Department of Neurology at Fudan University-affiliated Huashan Hospital, comprehensively mapped the modifiable risk factors for dementia for the first time.



<u>Spatio-temporal evolution of human neural</u> <u>activity during visually cued hand movements</u>

Making hand movements in response to visual cues is common in daily life. It has been well known that this process activates multiple areas in the brain, but how these neural activations progress across space and time remains largely unknown.



Unexpected sound omissions are signaled in human posterior superior temporal gyrus: an intracranial study

Our brains are excellent at making predictions about what we should hear next, based on context. These predictions help us understand and interact with our surroundings. For example, when listening to a melody, we may predict the next note in a sequence.



Scientists Create Embryo-Like Model that Mimics Post-Implantation Stage of Human Development

The human body and all its complexity arise from just a small collection of cells that divide and morph into different types of tissues. But exactly how this occurs is hard to study because embryos are hidden inside their mothers.



<u>A Motor Association Area In The Depths Of The</u> <u>Central Sulcus</u>

A specific part of the brain called the precentral gyrus is responsible for sending signals to the body's muscles to make them move. Ever since the seminal work of Wilder Penfield close to 100 years ago, we have known that different areas of the precentral gyrus correspond to different parts of the body



<u>A New Mechanism for Crossing the Blood–Brain</u> <u>Barrier</u>

The blood-brain barrier (BBB) is a stringent, nearly impenetrable layer of cells that guards the brain, protecting the vital organ from hazards in the bloodstream such as toxins or bacteria and allowing only a very limited set of small molecules, such as nutrients, to pass through.



<u>No Magic Number for Time It Takes to Form</u> <u>Habits</u>

A new study from social scientists at Caltech now shows how long it takes to form the gym habit: an average of about six months. The same study also looked at how long it takes health care workers to get in the habit of washing their hands: an average of a few weeks.



Proving the Feasibility of Passive Functional Mapping in the Receptive Language Cortex during General Anesthesia

A Member of the Chen Frontier lab for Applied Neurotechnology, was part of a team of researchers who were investigating the feasibility of passive functional mapping in the receptive language cortex during general anesthesia using electrocorticographic (ECoG) signals.



TCCI Investigator Discovers the Potential Benefits of Propofol for Depression Patients

The paper explores the neural mechanism of euphoria produced by propofol and uncovers its new role in treating depression. Professor Tifei Yuan, a TCCI investigator and the Executive Director of the Institute of Brain Health of Shanghai Mental Health Center, was the lead author of the paper.



New Research Reveals Core Trait Impulsivity, Impulse Heterogeneity and Influencing Factors Across Addiction Disorders

Professor Min Zhao and TCCI-affiliated investigator Tifei Yuan from Shanghai Mental Health Center, Shanghai Jiaotong University, recently co-authored a paper titled "The Structure and Individual Patterns of Trait Impulsivity Across Addiction Disorders: a Network Analysis," published in the International Journal of Mental Health and Addiction.



Professor from Huashan Hospital Is First to Validate that Chronic Cerebral Hypoperfusion Can Independently Cause Changes in Alzheimer's Biomarkers in Moyamoya Disease

Professor Ying Mao, President of Fudan Universityaffiliated Huashan Hospital and Director of TCCI Translational Center, recently published a research paper titled "Brain perfusion, cognition, and plasma Alzheimer's biomarkers in moyamoya disease" in collaboration with his research team in Alzheimer's & Dementia: The Journal of the Alzheimer's Association, a top international journal on neurology.



First Session of Plato's Spiritual Academy: Reflections on Spiritual Phenomena from Scientific and Philosophical Perspectives

The first session of the Plato's Spiritual Academy was organized by the Tianqiao and Chrissy Chen Institute (TCCI), the Shanghai Mental Health Centre, and the Shanghai Library under the theme of "Reflections on Spiritual Phenomena from Scientific and Philosophical Perspectives."



A GPS for Smart Pills

Researchers have developed proxies for human doctors that are small enough travel through the human body and help diagnose ailments. These "smart pills" are typically swallowed, and as they pass through the digestive tract, they collect health data, record images, and even deliver drugs.



A Theory of Rage

From petty anger to the devastating violence we see in the news, acts of aggression can be difficult to comprehend. Research has yielded puzzling paradoxes about how rage works in the brain. But a new study from Caltech, pioneering a machinelearning research technique in the hypothalamus, reveals unexpected answers on the nature of aggression.

Academic Conferences We Support (1)

Conference Name	Date	Location
NeurIPS	Dec. 11-15, 2023	New Orleans, LA
Asian American Scholar Forum Workshop: Al for Science and Medicine	Nov. 12, 2023	MIT, Boston, MA
Neuroscience 2023	Nov. 11-15, 2023	Washington, DC
TCCI & Science: AI & Mental Health	Nov. 9, 2023	Washington DC
AI for Brain Science Series: Decision-making and AI	Sep. 20, 2023	Online
<u>The NYO3 5th No-Age/AD Meeting and The</u> <u>1st Norway-UK Joint Meeting On Ageing And</u> <u>Dementia</u>	Sep. 18-19, 2023	Oslo, Norway
2023 Pujiang Innovation Forum - Future Science Forum	Sep. 11, 2023	Online
ACII 2023 Meeting	Sep. 10-13, 2023	MIT, Cambridge, MA
Neuroscience of the Everyday World	Aug. 29-30, 2023	Boston University
ARDD 2023. The Tenth Aging Research and Drug Discovery Meeting	Aug. 28-Sept. 1, 2023	Copenhagen, Denmark
NanoNeuro 2023	Aug. 18, 2023	Online
AI for Brain Science Series: How to Equip AI with Long-term Memory	Aug. 8, 2023	Online
<u>The 46th Annual Meeting of The Japanese</u> <u>Neuroscience Society</u>	Aug. 1-4, 2023	Sendai International Center, Japan
CNS Annual Meeting: A forum on AI and BCI	Jul. 28, 2023	Online + Offline (Zhuhai)
The 16th Annual Meeting of Chinese Neuroscience Society: Focusing on "Major Progress Made in the Neuroscience Field in China"	Jul. 27-30, 2023	Online + Offline (Zhuhai)
ICML 2023. Fortieth International Conference On Machine Learning	Jul. 25-27, 2023	Honolulu, HI
NanoNeuro 2023	Jul. 20, 2023	Online
TCCI & Netease: Exploring the Future of Creating Music - AI, Human Brain and Therapy.	Jul. 19, 2023	Online
Cognitive Neural Modeling of EEG and Decision Making under DDM Single Trial	Jul. 14, 2023	Online
Al for Brain Science: Al, Brain, and Music	Jul. 13, 2023	Online
WAIC: TCCI announces plans and strategy for AI + brain science	Jul. 6, 2023	Online + Offline (Shanghai)
TCCI Neurochat 2023	Jun. 21-24, 2023	Online

Academic Conferences We Support (2)

Conference Name	Date	Location
The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2023	Jun. 18-22, 2023	Vancouver, BC
How to Deploy HDDM with Docker?	Jun. 17, 2023	Online
<u>10th Annual International BCI Meeting:</u> Balancing Innovation and Translation	Jun. 6-9, 2023	Brussels, BE
Al for Brain Science Series: Semantic reconstruction of continuous language from non-invasive brain recordings	May 31, 2023	Online
Al for Brain Science: Using ChatGPT to Generate Data for Medical Al Models	May 28, 2023	Online
NeuroFrance 2023	May 24-26, 2023	Lyon, France
Al for Brain Science Series: Inducing Anxiety in Large Language Models Increases Exploration and Bias	May 12, 2023	Online
<u>The NeuroPSI-Chen Institute Joint</u> Conference on Brain, Behavior & Beyond	May 11-12, 2023	Saclay, France
The neuroscience of music – towards ecological validity	May 4, 2023	Online
<u>TCCI Webinar to Explore the Opportunities</u> and Challenges of Using AI Technology to <u>Tackle Brain Disease</u>	Apr. 9, 2023	Online
USC-Chen Institute Frontiers Forum On <u>"Sensation and Motivation"</u>	Mar. 29-30, 2023	University of Southern California, CA
CNS 2023: Cognitive Neuroscience Society Annual Meeting	Mar. 25-28, 2023	San Francisco, CA
ChatGPT Seminar Series: Prompt-oriented Research and Translational Applications for Brain Science & Pyschological Health	Mar. 23, 2023	Online
<u>A Joint UC Davis-Chen Institute Contem-</u> plative Science Summit and Community <u>Gathering</u>	Feb. 24, 2023	UC Davis, CA
"From Music Therapy to Hip Hop & Rap" Music and the Brain: Deconstructing and Reconstructing the Multidimensional Re- lationship between Music and Health	Feb. 13, 2023	Online

Popular Science Conferences We Support (1)

Conference Name	Date	Location
Popular Science Series: A Prelude to Digital Life and Uploading Consciousness	Nov. 26, 2023	Online + Offline (Shanghai)
<u>From Science Fiction to Reality, How Do</u> <u>Brain-Computer Interfaces Connect Artificial</u> <u>Intelligence and Human Intelligence?</u>	Oct. 14 2023	Online + Offline (Shanghai)
CNS Popular Science Series: Moonlight or Frost? Unveiling the Visual Secrets of Brain	Sep. 23, 2023	Online + Offline (Shanghai)
AI & Brain Science Series: I Heard the Song that You Heard	Aug. 30, 2023	Online
CNS Popular Science Series: Exploring the Origin of Light Perception in the Brain: Retina	Aug. 13, 2023	Online + Offline (Shanghai)
AI & Brain Science Series: Is AI-generated Music More Pleasant?	Aug. 3, 2023	Online
CNS Popular Science Series: Did You Have A Good Sleep?	Jul. 25, 2023	Online + Offline (Shanghai)
Popular Science Series: Tongji University	Jul. 18, 2023	Online
AI & Brain Science Series: Are AI and brain Science the Most Promising Fields for the Next Decade? College Application Special	Jul. 3, 2023	Online
CNS Popular Science Series: Brain Evolution	Jul. 2, 2023	Online + Offline (Shanghai)
AI & Brain Science Series: Does AI Have Its Own Views on the World, Life and Values	Jun. 29, 2023	Online
CNS Popular Science Series: How Does the Brain Create Dreams?	Jun. 27, 2023	Online
CNS Popular Science Series: Brain Development	Jun. 18, 2023	Online + Offline (Shanghai)
Al & Brain Science Series: Are We on the Eve of Major Breakthroughs in Brain-computer Interface Technology?	Jun. 9, 2023	Online
AI & Brain Series: Will Mindreading Be Possible in the Era of Generative AI?	May 31, 2023	Online
AI for Brain Science: Will AI have Anxiety?	May 25, 2023	Online

Popular Science Conferences We Support (2)

Conference Name	Date	Location
CNS Popular Science Series: Who Stole Your Memory?	May 14, 2023	Online + Offline (Shanghai)
CNS Popular Science Series: Talking to Brain	Apr. 23, 2023	Online
Popular Science Series: Music Therapy for Alzheimer's Disease	Apr. 3, 2023	Online
CNS: World Autism Awareness Day. "Exploring the Mystery of Autism - From Genes to the Brain	Apr. 2, 2023	Online + Offline (Shanghai)
Popular Science Series: Brain Mechanisms for Enhancing Speech Perception with Music Training	Mar. 27, 2023	Online
CNS: World Sleep Day. "Why Do We Need Sleep?"	Mar. 19, 2023	Online + Offline (Shanghai)
Popular Science Series: Analyzing Personality Traits with Large Language Models	Mar. 2, 2023	Online
CNS Popular Science Series: Innovative Applications of Silk in Electrode Manufacturing	Feb. 26, 2023	Online + Offline (Shanghai)
Plato's Spiritual Home	Feb. 19, 2023	Online + Offline (Shanghai)



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