

LI KA SHING CENTER SEPTEMBER 9-10, 2023



Stanford Big Ideas in Medicine



Li Ka Shing Learning and Knowledge Center 291 Campus Drive, Stanford, CA 94305

SATURDAY, SEPTEMBER 9TH

7:15 AM LIGHT BREAKFAST

8:00 AM WELCOME Bryant Lin, MD, MEng Lloyd Minor, MD

8:15 AM KEYNOTE AND Q&A David Rhew, MD

9:00 AM BIG DATA & AI

Fragmented

Chatbox and Large Language Model

Responsible AI in Healthcare

Generative AI and Medicine

Panel

Ilana Yurkiewicz, MD

Jonathan Chen, MD

Nigam Shah, MBBS, PhD

Moderated by David Rhew, MD

12:45 PM LUNCH & BOOK SIGNING

1:30 PM HEALTH EQUITY

Bridging the Chasm: Inequities in Maternal Nisha Parikh, MD Cardiovascular Health

Improving Healthcare Delivery

The People's Hospital

Small Ideas Make Big Ideas Better

Ethnic Media and Health Equity

Afia Asamoah, JD, MPP

Ricardo Nulia, MD

Stuart Coulson, MBA

Sandy Close

Panel Moderated by David Rehkopf, ScD, MPH

5:20 PM CLOSING

6:30 PM SPEAKER & FACULTY DINNER (OPTIONAL)



Stanford Big Ideas in Medicine



Li Ka Shing Learning and Knowledge Center 291 Campus Drive, Stanford, CA 94305

SUNDAY, SEPTEMBER 10TH

7:30 AM LIGHT BREAKFAST

8:30 AM AGING & LONGEVITY

Elderhood Louise Aronson, MD, MFA
Grief and Bravery Laurel Braitman, PhD
Development of a Vaccine for Aging Ronjon Nag, PhD
Large Scale Data Collection to Live Longer Michael Snyder, PhD
Panel Moderated by Artem Trotsyuk, PhD

12:15 PM LUNCH & BOOK SIGNING

1:00 PM ONCOLOGY

Multi-Cancer Early Detection Eric Klein, MD
Investing Opportunities in Cancer Justin Norden, MD, MBA
Human Costs of Pursuing Cancer Azra Raza, MD
Evolutionary Dynamics of Tumors Christina Curtis, PhD, MSc
Panel Moderated by Ilana Yurkiewicz, MD

4:30 PM CLOSING









Welcome to the Stanford Big Ideas in Medicine Conference!

We are delighted to welcome you as we gather to explore the future of medicine and healthcare. This conference, in its inaugural year, is a celebration of the power of ideas to shape what's possible in healthcare.

Over the next two days, we have curated a program that brings together thought leaders from multiple disciplines including scientific research, clinical care, business, journalism, and healthcare policy. Our four themes – Big Data & Artificial Intelligence, Health Equity, Aging & Longevity, and Oncology – were selected by Stanford Medicine faculty.

Through these themed talks and panel discussions, we will foster a respectful exchange of ideas that will challenge, inspire, and push the boundaries of what's possible in medicine and healthcare. We aim to dissect and think deeply about the most pressing issues facing medicine in our times.

We also intend for this to be a gathering to meet others with shared interests for future collaboration. We encourage you to engage with fellow attendees, ask questions, share your insights, and embrace the opportunity to connect with likeminded individuals who share your passion for transforming the future of medicine.

Thank you for being a part of the first of many Stanford Big Ideas in Medicine Conferences. Your presence enriches the experience for everyone, and we look forward to seeing the ideas that will emerge from our collective exploration.

Best,

Stanford Big Ideas in Medicine Conference Planning Committee

Bryant Lin, MD
Ilana Yurkiewicz, MD
Brett McClung, FACHE
Frish Brandt, LETTER MIDWIFE
Jacqueline Genovese, MFA
Christy Hartman, MA

Speakers



Afia Asamoah, JD, MPP

Co-Founder, Healthcare Technology Leader, Board Director

Afia Asamoah is a strategic technology leader and senior executive with over 15 years experience guiding companies at the convergence of technology and healthcare, during dynamic periods of innovation and transformation. In 2021, she co-founded Waymark to focus on improving care delivery to people with Medicaid benefits, combining her interests in focusing innovation to improve health care to underrepresented and lower income populations. She currently leads the legal, people, security and compliance functions.



Bryant Lin, MD, MEng

Educator, Researcher, Physician

Bryant Lin, MD, MEng is a primary care physician, educator and researcher. The cornerstone of Dr. Lin's work is keeping medicine focused on humans - patients, providers, families and trainees - and not lost in technology and algorithms. He is an accomplished inventor with 12 issued US patents and an experienced entrepreneur. Dr. Lin holds appointments as Clinical Professor of Medicine, Co-Director of the Center for Asian Health Research and Education (CARE) and Director of Medical Humanities and Arts at Stanford.



Artem Trotsyuk, PhD

Scholar, Research Fellow

Dr. Artem A. Trotsyuk is a postdoctoral fellow with the Stanford Center for Biomedical Ethics, a research fellow with the Stanford Center for Human-Centered Artificial Intelligence and The Hoover Institute. He completed his PhD in Bioengineering and Masters in Computer Science with an AI specialization at Stanford University under the supervision of Dr. Geoffrey Gurtner in the Department of Surgery. He was co-advised by Dr. Zhenan Bao in the Department of Chemical Engineering alongside Dr. Russ Altman and Dr. Michael Snyder. His thesis focused on developing a smart bandage that implements a closed-loop AI processing system for sensing and therapeutic delivery into a wound bed. Broadly, his research interests lie in bioengineering, gene editing, wearables, CRISPR therapy, regenerative medicine and ethical use of data in drug development.



Azra Raza, MD

Scientist, Oncologist, Author

Dr. Azra Raza is the Chan Soon-Shiong Professor of Medicine and Director of the MDS Center at Columbia University in New York. She is an accomplished scientist who supervises a state-of-theart basic research lab and a Tissue Repository of blood and marrow samples collected since 1984. Dr. Raza is a dedicated reader of Urdu literature, the co-author of GHALIB: Epistemologies of Elegance. She is the author of The First Cell: And the Human Costs of Pursuing Cancer to the Last published by Basic Books, October 2019.



Christina Curtis, PhD, MSc

Researcher, Data Scientist

Christina Curtis, PhD, MSc is a Professor of Medicine, Genetics and Biomedical Data Science and an Endowed Scholar at Stanford University where she leads the Cancer Computational and Systems Biology group. Dr. Curtis also serves as the Director of Artificial Intelligence and Cancer Genomics, Director of Breast Cancer Translational Research and Co-Director of the Molecular Tumor Board at the Stanford Cancer Institute. Dr. Curtis's laboratory leverages computational modeling, high-throughput molecular profiling and experimentation to develop new ways to prevent, diagnose and treat cancer.



David Rehkopf, ScD, MPH

Scientist, Epidemiologist

David Rehkopf is a social epidemiologist and serves as an Associate Professor in the Department of Epidemiology and Population Health and in the Department of Medicine in the Division of Primary Care and Population Health. He joined the faculty at Stanford School of Medicine in 2011. He is currently the co-director of the Stanford Center for Population Health Sciences. In this position he is committed to making high value data resources available to researchers across disciplines in order to better enable them to answer their most pressing clinical and population health questions.



David Rhew, MD

Global Chief Medical Officer

Dr. David C. Rhew is the Global Chief Medical Officer (CMO) & VP of Healthcare for Microsoft. He is Adjunct Professor at Stanford University; holds six U.S. technology patents that enable authoring, mapping, and integration of clinical decision support into electronic health records; and has been recognized as one of the 50 most influential clinician executives by Modern Healthcare. He has served as CMO and VP for Samsung; SVP and CMO at Zynx Health Incorporated; clinician/researcher at the VA Greater Los Angeles Healthcare System and RAND; and Associate Clinical Professor of Medicine at UCLA. Dr. Rhew has served on the National Quality Forum's Executive Committee for Consensus Standards and Approval, Chaired the Consumer Technology Association Health Technology Board, and sits on the Governing Committee for NESTcc (National Evaluation System for health Technology coordinating center), the medical device advisory group for the FDA, CMS, and NIH.



Eric Klein, MD

Emeritus Chair of Urology, Researcher

Eric A. Klein, MD, is Emeritus Chairman of the Glickman Urological & Kidney Institute, Professor of Surgery at the Cleveland Clinic Lerner College of Medicine, and a member of the Department of Cancer Biology in the Lerner Research Institute. His clinical and research interests are in genitourinary cancers with special expertise in prostate cancer. He serves as editor-in-chief for UROLOGY, one of the four major urologic journals. He has published more that 700 peer-reviewed papers including discovery papers that served as the basis for clinical assays for prostate cancer including isoPSA (a blood based assay with improved diagnostic accuracy) and OncotypeDx Prostate, a gene expression assay that characterizes biologic aggressiveness.



Ilana Yurkiewicz, MD

Author, Oncologist, Primary Care Physician

Dr. Yurkiewicz is a practicing physician and medical journalist on the faculty at Stanford University School of Medicine. Board certified in internal medicine, oncology, and hematology, she is a Clinical Assistant Professor of Primary Care and Population Health in the Department of Medicine and Co-Director of Primary Care for Cancer Survivorship. Dr. Yurkiewicz is an award-winning physician-writer whose work has appeared in The Best American Science and Nature Writing, the Atlantic, Scientific American, and elsewhere. She is the author of the upcoming book Fragmented: A Doctor's Quest to Piece Together American Health Care coming from the publisher W.W. Norton in July 2023.



Jia Li, PhD

Co-Founder, Chairperson

Jia is passionate about the potential for artificial intelligence to improve our lives. She is elected as IEEE Fellow for Leadership in Large Scale AI. She is the Co-founder and Chairperson of HealthUnity. She served different roles including an Adjunct Professor and Chief AI Fellow, RWE for Sleep at Stanford University. She was the Co-founder and Head of R&D at Google Cloud AI. At Google, she oversaw the development of the full stack of AI products on Google Cloud to power solutions for diverse industries with healthcare as one of the top verticals.



Jonathan Chen, MD

Physician-Scientist

Jonathan H Chen MD, PhD is a physician-scientist with professional software development experience and graduate training in computer science. He continues to practice Internal Medicine for the concrete rewards of caring for real people and to inspire his research focused on mining clinical data sources to inform medical decision making.



Justin Norden, MD, MBA

Digital Health Venture Capital Investor

Justin Norden is a Partner at GSR Ventures, where he focuses on early-stage investments in digital health. Prior to GSR Ventures, he was CEO and co-founder of Trustworthy AI which was acquired by Waymo (Google self-driving). He worked on the healthcare team at Apple, co-founded Indicator (an NLP based platform for biopharma decision making), and helped start the Stanford Center for Digital Health.



Laurel Braitman, PhD

NYT Bestselling Author

New York Times bestselling author and Stanford professor Laurel Braitman is a driving force in bridging the gap between storytelling and the medical world. She works with doctors and medical students—who, like many other frontline workers, are facing record levels of burnout—and proves that the simple act of telling our own stories can help build community, improve mental health, and equip us with the communication skills we need to make a real difference for those around us.



Lloyd Minor, MD

Dean, Stanford University School of Medicine

Lloyd B. Minor, MD, is the Carl and Elizabeth Naumann Dean of the Stanford University School of Medicine. Under his leadership, Stanford Medicine has pioneered the Precision Health revolution, which emphasizes preventive, personalized health care and leverages advances in biomedicine to treat and cure complex diseases. His book, "Discovering Precision Health," illustrates how Stanford Medicine and other health leaders are revolutionizing biomedicine. In 2021, Dr. Minor articulated and began realizing a bold vision to transform the future of life sciences at Stanford University and beyond – a multi-decade journey enabled by Precision Health. Dr. Minor also is a professor of Otolaryngology–Head and Neck Surgery and a professor of Bioengineering and of Neurobiology, by courtesy. With more than 160 published articles and chapters, Dr. Minor is an expert in balance and inner ear disorders. In 2012, he was elected to the National Academy of Medicine.



Louise Aronson, MD, MFA

Geriatrician, Writer, Educator

Louise Aronson, MD MFA, is a leading geriatrician, writer, educator, and professor of medicine at the University of California, San Francisco. The author of the New York Times bestseller and Pulitzer Prize finalist Elderhood, she is a regular contributor to the New York Times and the New England Journal of Medicine among other publications. Recognition of Louise's work includes a MacDowell fellowship, four Pushcart nominations, the American Geriatrics Society Clinician-Teacher of the Year award, and a Gold Professorship for Humanism in Medicine.



Michael Snyder, PhD

Researcher, Chair of the Department of Genetics

Michael Snyder is the Stanford Ascherman Professor and Chair of Genetics and the Director of the Center of Genomics and Personalized Medicine. He is a leader in the field of functional genomics and multiomics, and one of the major participants of the ENCODE project. His laboratory study was the first to perform a large-scale functional genomics project in any organism, and has developed many technologies in genomics and proteomics. He launched the field of personalized medicine by combining different state-of-the-art "omics" technologies to perform the first longitudinal detailed integrative personal omics profile (iPOP) of a person, and his laboratory pioneered the use of wearables technologies (smart watches and continuous glucose monitoring) for precision health. He is a cofounder of many biotechnology companies, including Personalis, SensOmics, Qbio, January, Protos, Oralome, Mirvie and Filtricine.



Nigam Shah, MBBS, PhD

Chief Data Scientist

Dr. Nigam Shah is Professor of Medicine (Biomedical Informatics) at Stanford University, Chief Data Scientist at Stanford Healthcare, and a member of the Biomedical Informatics Graduate Program as well as the Clinical Informatics Fellowship. Dr. Shah's research focuses on combining machine learning and prior knowledge in medical ontologies to enable use cases of the learning health system.



Nisha Parikh, MD

Professor, Physician

Dr. Parikh is a trained cardiovascular epidemiologist and population scientist. She demonstrated in the Multi-Ethnic Study of Atherosclerosis that the hemodynamic changes of pregnancy may not revert back to normal, may be cumulative across successive pregnancies, and can lead to left ventricular remodeling on cardiac MRI in mid-life. Along with a research team at the Framingham Heart Study, she developed a risk score for incident hypertension and this work was cited in the recent version of the US hypertension guidelines. She has added to the scientific knowledge base demonstrating which specific reproductive factors are predictors of cardiovascular disease using data from the NIH sponsored Women's Health Initiative Study and has leveraged data from the Swedish Population Registers.



Ricardo Nuila, MD

Writer, Teacher, Physician

Ricardo Nuila is a writer and an associate professor of medicine at Baylor College of Medicine. For the past thirteen years, he has worked as a hospitalist and attending at Houston's largest safety net facility, Ben Taub Hospital. Ricardo's essays and articles on health disparities have been featured in The New Yorker, The New York Times, Texas Monthly, The Atlantic, and The New England Journal of Medicine. Fictional works have appeared in The Best American Short Stories anthology, Guernica, and McSweeney's. He is the director of the Humanities Expression and Arts Lab (HEAL) at Baylor, which integrates arts and humanities into medical education and has received a Association of American Medical Colleges (AAMC) grant supporting its work. His first book, The People's Hospital: Hope and Peril in American Medicine was featured on NPR's Fresh Air with Terry Gross.



Ronjon Nag, PhD

Adjunct Professor in Genetics

Ronjon Nag is an inventor, teacher and entrepreneur. He is an Adjunct Professor in Genetics at the Stanford School of Medicine, becoming a Stanford Distinguished Careers Institute Fellow in 2016. He teaches AI, Genes, Ethics, Longevity Science and Venture Capital. He is a founder and advisor/board member of multiple start-ups and President of the R42 Group, a venture capital firm which invests in, and creates, AI and Longevity companies. As a pioneer of smartphones and app stores, his companies have been sold to Apple, BlackBerry, and Motorola. More recently he has worked on the intersection of AI and Biology. He has been awarded the IET Mountbatten Medal by the Institution of Engineering and Technology, the 2021 IEEE-SCV Outstanding Engineer Award, the 2021 IEEE-USA Leader in Entrepreneurship Spirit Award, and as Chairman of Bounce Imaging winner of the \$1m Verizon Powerful Answers Award. He has numerous interests in the intersection of AI and Healthcare including advising companies such as HealX.ai and Oxford Drug Design on computational drug discovery.





Sandy Close

Journalist, MacArthur Genius Grant Winner

Sandy started her career covering China and Vietnam as an editor of the Far Eastern Economic Review in the mid-1960s. She became editor of Pacific News Service in 1974 and was a pioneer in developing youth media. In 1996, she founded New America Media, the first and largest collaboration of ethnic news organizations. Her work has received several awards, including a MacArthur Foundation "Genius Award" and the 2011 Polk Award for Career Achievement. In 1996, a film she co-produced, Breathing Lessons, won an Academy Award for best short documentary. She founded Ethnic Media Services in 2017 to continue her work amplifying and elevating the voices of ethnic media.

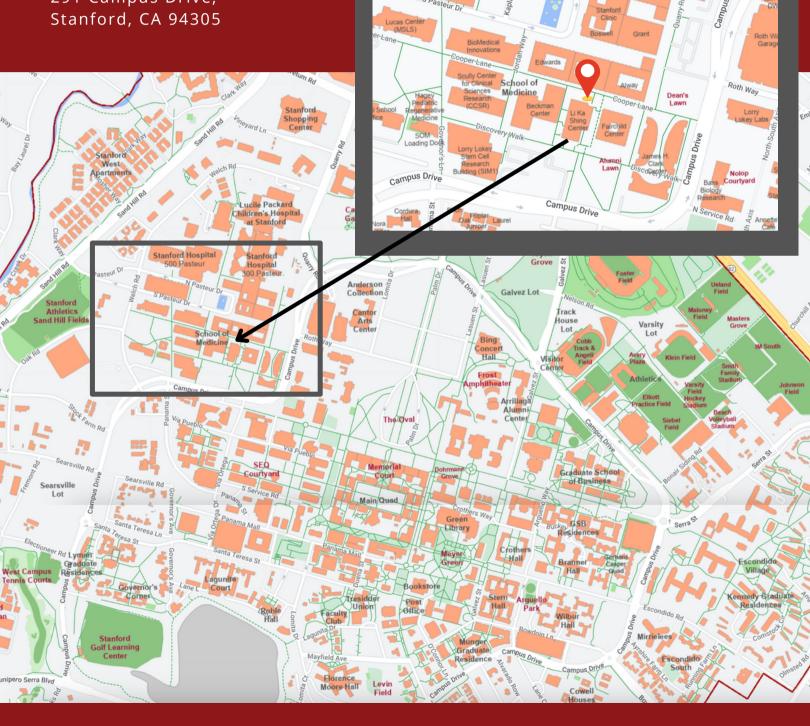
Stuart Coulson, MBA

Educator, Innovator, Investor

Stuart Coulson is an Adjunct Professor at Stanford University's Institute of Design and a Lecturer at the Graduate School of Business, where he leads Design for Extreme Affordability. Stuart is an investor in and advisor to early stage technology and social impact organizations in Silicon Valley and his native Ireland. He is a member of Trinity College Dublin's Provost's Council, sits on the board of Tangent – Trinity's Ideas Workspace, and is a founding member of Trinity Angels and the LaunchBox student startup incubator program. He also grows old-vine Zinfandel grapes in California's Russian River Valley and enjoys regularly quality testing the resulting award-winning wines. Stuart's background is in software development, data communications and travel reservations systems. His previous roles include senior leadership in some of the world's largest travel technology companies and several startups. He co-founded Gradient Solutions, a pioneer in web-based travel e-commerce, acquired by Sabre.

Stanford University
Campus Map

Li Ka Shing Learning and Knowledge Center 291 Campus Drive, Stanford, CA 94305



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Stanford Hospita 300 Pasteur

Travel Information



Rooms are available at the The Stanford Park Hotel with a 20% discount for conference attendees. This is valid Friday 9/8, Saturday 9/9, and Sunday 9/10.

Use the promo code: BIGIDEAS2023

Parking on Campus

Parking is free on campus on weekends. Visitor Parking is enforced from on weekdays, from 8 AM to 4 PM. The closest garage to the venue is Roth Way Garage: 355 Roth Way, Stanford, CA 94305.

The Marguerite

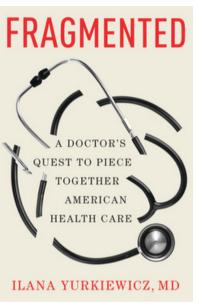
Marguerite is free and open to the public – no ID required. The main shuttle lines traverse the campus Monday through Friday all year (except university holidays). All buses are wheelchair-accessible and have bike racks. Visit https://transportation.stanford.edu/marguerite for live maps, routes, and schedules.

Book Signing Information

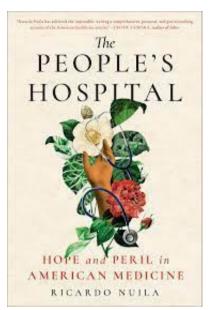
September 9th, 12:45 PM & 10th, 12:15 PM

Paul Berg Foyer

All books will be available for purchase at the book signing.



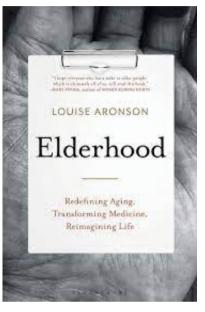
Fragmented by Ilana Yurkiewicz



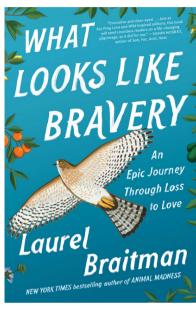
The People's

Hospital

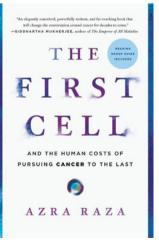
by Ricardo Nuila



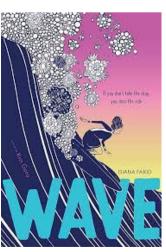
Elderhood by Louise Aronson



What Looks Like
Bravery
by Laurel Braitman



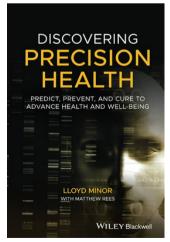
The First Cell by Azra Raza



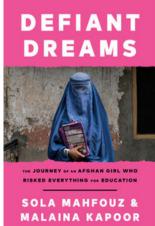
Wave by Diana Farid



When You Breathe by Diana Farid



DiscoveringPrecision Health
by Lloyd Minor



Defiant Dreams by Sola Mahfouz & Malaina Kapoor

Activities/Arts on Campus



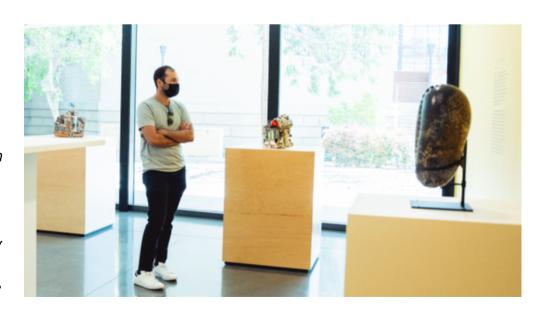
Cantor Arts Center

Serving the Stanford campus, the Bay Area community, and visitors from around the world, the Cantor Arts Center provides an outstanding cultural experience for visitors of all ages. Founded when the university opened in 1891, the historic museum was expanded and renamed in 1999 for lead donors Iris and B. Gerald Cantor. The Cantor's collection spans 5,000 years and includes

more than 38,000 works of art from around the globe. These include our renowned collection of Rodin bronze sculptures, which are displayed inside the museum as well as in our outdoor Rodin Sculpture Garden. With 24 galleries and more than 15 special exhibitions each year, the Cantor is an established resource for teaching and research on campus. Free admission, tours, lectures, and family activities make the Cantor one of the most visited university art museums in the country.

Anderson Collection

Stanford University is the home to the core of the Anderson Collection, one of the world's most outstanding private assemblies of modern and contemporary American art. The collection is a gift from Harry W. and Mary Margaret Anderson and Mary Patricia Anderson Pence, the Bay Area family who built the collection over the last 50



years. The addition of this remarkable art collection strengthens Stanford's growing commitment to the arts and the connection between the study, creation and experience of art.

Restaurant/Cafe Recommendations

Zareen's



365 California Ave, Palo Alto, CA 94306

Since Zareen and Umair Khan opened their first location in Mountain View in 2014, Zareen's has been a popular spot for diners on the Peninsula seeking homestyle South Asian dishes and a steamy cup of chai. Here, the traditional coexists with the modern: garlic naan is baked to order in a clay oven; street food classics like Karachi's silky, porridge-like haleem are rendered faithfully; and paneer tikka masala gets wrapped up with rice and chutney in burritos.

- Soleil Ho (SF Chronicle)

150 University Ave, Palo Alto, CA 94301

Sweet Maple is a laid-back and unpretentious neighborhood restaurant, coffeehouse and meeting place located in the Lower Pacific Heights neighborhood of San Francisco. Serving a classic American breakfast and brunch menu with a touch of Asian influence, our team of chefs add innovative twists to familiar favorites creating something for everyone. Founded in 2010, Sweet Maple is now the the go-to brunch destination for San Francisco locals and knowledgeable food tourists alike.

- Sweet Maple website

Sweet Maple







473 Via Ortega, Stanford, CA 94305

Coupa Cafe is an urban oasis in the heart of the Silicon Valley providing the unique experience of an excellent cup of coffee as well as delicious dining options. Coupa Café has several locations at Stanford University including the Energy & Environment Building, the Kiosk at Green Library, The Knight School of Management, and a grab n' go location inside the Jen-Hsun Huang Engineering Center.

- Coupa Cafe website

Restaurant/Cafe Recommendations



Vina Enoteca



700 Welch Road, Suite 110, Palo Alto, CA 94304

Vina Enoteca is a full-service Italian restaurant and bar located at the Stanford Barn in Palo Alto. Vina Enoteca brings the rustic charm of Italy to the Silicon Valley with food that warms the soul in a setting unlike any other. Come gather with family and friends and sip fine wine, craft cocktails and savor modern Italian cuisine in a comfortable setting. Our fantastic team will guide you through an unforgettable dining experience.

- Vina Enoteca website

700 Welch Road, Suite 150, Palo Alto, CA 94305

Tucked in the historic Stanford Barn, which served as the Stanford winery until 1893, Tootsie's is a little Italian jewel of an eatery that offers high-end coffees and espresso, sandwiches, fresh salads, and breakfasts.

- Stephanie Lucianovic (KQED)

Tootsies





Additional Information

CME Credit Information

You can earn up to 12.25 CME credits by attending the Stanford Inaugural Big Ideas in Medicine Conference.

Accreditation

In support of improving patient care, Stanford Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Credit Designation American Medical Association (AMA)

Stanford Medicine designates this Live Activity for a maximum of 12.25 AMA PRA Category 1 CreditsTM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

For more information, visit https://med.stanford.edu/cme.html. More information will come on the day of the conference.

Lactation Space



Li Ka Shing Center, 3rd Floor, Room LK313

First come, first serve basis. Door lockable from inside. Two chairs, side tables and access to power outlet. No sink or water. Has universal signage above door.

Yoga, Vinyasa Flow September 10th, 7:15 - 8 AM, Room LK209

This class will focus on connecting breath to movement through various sun salutation sequences. Perfect for beginners, intermediate, and advanced practitioners. Flexibility not required! Please bring a towel, water bottle, and mat. Signed waiver required.





Teacher Bio

Isa Alvarez Morales has been practicing and teaching inclusive, trauma-informed yoga for the past 5 years. She loves the mindfulness aspect of the practice, really allowing you to slow down your thoughts and connect with your body on a physical and spiritual level. Her favorite pose is Bird of Paradise, not just a beautiful flower, but a test of true physical strength in yoga.

Sponsors

Hosted by:

Medical Humanities and Arts Program, Center for Biomedical Ethics, Center for Asian Health Research and Education, Center for Innovation in Global Health, Center for Population Health Sciences, Stanford Center on Longevity

Special thank you for the generous financial support from **Wilson Sonsini** and from individual donors who made this conference possible.











