2023 International Conference

人工智能、精準醫療、科技防疫、與健康高齡化

Artificial Intelligence Precision Medicine Technologies for Pandemic Prevention and Healthy Aging

September 15 - 17, 2023
Sonesta Gwinnett Place Atlanta
1775 Pleasant Hill Rd, Duluth, GA, USA

主辦單位 Organizers

CAPASUS 美東南區中華學人協會
Chinese-American Academic and Professional Association in Southeastern United States

NSTC 國家科學及技術委員會
National Science and Technology Council
駐美代表處科技組
Science and Technology Division, Taipei Economic and Cultural Representative Office in the U.S.

美東南區中華學人協會 CAPASUS

President: Mei-Lan Chen

Conference Coordinator: Alice Stanley

Proceeding Editors: Jeffrey Lin (Chair) , Ming Hsieh, Chu-Yun Chen, Seng-Yang Wang

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Preface

Welcome to the 2023 International Conference organized by the Chinese American Academic and Professional Association in Southeastern United States (CAPASUS) and the Science and Technology Division of the Taipei Economic and Cultural Office in Washington, D.C. . I would like to thank you for your generosity and long-term support, whether through participation, cash donations or advertisement for CAPASUS and CAPASUS Foundation. We hope you will continue to support CAPASUS in the future.

This year's conference will be held at Sonesta Gwinnett Place Atlanta on September 15-17, 2023. The theme will focus on ***Artificial Intelligence, Precision Medicine, Technologies for Pandemic Prevention, and Healthy Aging***. We have a very exciting program. This year, we have the honor to invite many outstanding scholars from the US and Taiwan to participate in this conference. From Taiwan, we have the honor to invite Dr. Jen-Hsiang Chuang, the Director General of the Taiwan Centers for Disease Control. We are pleased to have Dr. Hsin-Chien Lee, the Vice Dean of the Taipei Medical University, Dr. Jung-Lung Hsu from the New Taipei Municipal TuCheng Hospital, and Dr. Shao-Yun Hsu from the Chang Gung Memorial Hospital. From the US, we have the privilege to invite Dr. L. Clifford McDonald, the Associate Director for Science of the U.S. Centers for Disease Control and Prevention (US CDC). We also have the honor to invite Dr. Wun-Ju Shieh, the Former Deputy Branch Chief of the US CDC. We are also proud to have Dr. Chih-Ching Matthew Hsu from the Flushing Hospital in New York. Dr. Hsu is also the Founding and Senior Pastor of the Union Bible Church in New York. In addition, we are glad to have Dr. James Tsai from the Georgia Institute of Technology, Dr. Meng-Chang Hsiao, the Associate Medical Director of Vanderbilt University Medical Center, Dr. Christopher Celano, the Associate Director of the Massachusetts General Hospital; Associate Professor of Harvard Medical School, Dr. Taian Wang, Spine Center Atlanta, Dr. Li-Kun (Oliver) Tu, Northside Hospital, Dr. Chin-Tser Huang, Professor at University of South Carolina, Dr. ChuChu Wu, Professor at Georgia Southwestern State University, and Dr. Mei-Lan Chen, Assistant Professor at Georgia State University.

On September 16th in the afternoon, we will have the Early Career Scholar Presentations and Awards Sessions. Five young scholars will present their research and receive scholarships from the CAPASUS Foundation. In the morning of 17th, we will have two Panel Discussions on Holistic Care for Healthy Aging and Early Career Scholar Mentorship Career Development.

Finally, I would like to extend my thanks to my wonderful 2022-2023 team. Without their assistance and commitment, we will not be able to organize this wonderful conference. I sincerely thank you for your service and dedication. Once again, I thank our members and CAPASUS friends for your past support, and I hope you will continue to support us for many years to come.

Mei-Lan Chen, Ph.D., RN,
2022-2023 CAPASUS President

2023 International Conference Theme

Theme

The 2023 International Conference will be surrounding the theme of “Artificial Intelligence, Precision Medicine, Technologies for Pandemic Prevention, and Healthy Aging.” Underscoring the most recent applications of smart technology in healthcare, its role and future potential in today's aging society, this conference endeavors in demonstrating the principle that science and technology serve humans and enhance wellbeing of the global community. The 2023 International Conference will focus on how the aging of the global population and the COVID-19 pandemic affected the development of smart technologies in healthcare, and discuss in depth on artificial intelligence, precision medicine, pandemic prevention with technology, healthy aging, and other issues. Through interdisciplinary presentations and panel discussions, this international conference aims to promote academic and industrial alliance between Taiwan and the United States and stimulate the dialogues regarding academic, technology, and cultural exchanges between different generations.

The rapid aging of the global population has become one of the most important topics for all countries. The international definition of an aging society, an aged society, and a super-aged society is that the population over the age of 65 accounts for 7%, 14%, and 20% of the total population respectively (National Development Council, 2022). Taiwan became an aging society in 1993 and turned into an aged society in 2018 and is expected to enter a super-aged society in 2025 (National Development Council, 2022). Compared with Taiwan, the population aging rate of the United States is slow, and it is expected to enter a super-aged society in 2030 (U.S. Census Bureau, 2018). As the era of super-aged societies is approaching, improving the quality of care for the elderly has become an important topic for us to study and discuss!

In 2021, Taiwan launched the “The Promotion Program of Six Core Strategic Industries”, which has listed precision medicine and technologies for pandemic prevention as one of the key developments (National Development Council, 2023). In addition, in Taiwan's “the 5+2 Industrial Transformation Plan”, the use of artificial intelligence is also one of the developmental strategies in promoting medical progress. Among the “NSTC 8 Forward-Looking Technology Platforms” promoted by Taiwan’s National Science and Technology Council (NSTC) in 2023, “Artificial Intelligence”, “Pandemic Prevention & Scientific Research” and “Optimizing Technology for Older Adults” are forward-looking fields that will help build Taiwan's sustainable and innovative technological power. These are also important parts of the developmental priorities in Taiwan (The National Science and Technology Council, 2023). Population aging is a challenge that all countries need to face. Therefore, this international conference will focus on the following four topics: (1) Technologies for Pandemic Prevention and Control; (2) Artificial Intelligence and Healthy Aging; (3) Precision Medicine and Healthy Aging (4) Holistic Care for Healthy Aging.

In summary, this international conference will echo Taiwan's science and technology development policies: “The 5+2 Industrial Transformation Plan”, “The Promotion Program of Six Core Strategic Industries”, and “NSTC 8 Forward-Looking Technology Platforms.” It would promote the relationship between Taiwan and the United States through academic and industrial exchanges, and the development and cooperation of smart healthcare technology in both countries. In addition, under the challenge of global population aging, the 2023 International Conference will discuss in depth on how to combine “artificial intelligence”, “precision medicine”, and “pandemic prevention with technology” to improve the quality of healthcare for the elderly,

to delay the onset of disability and dementia in older adults, to reduce the burden and cost of long-term care, and to promote “healthy aging”.

Purpose

The purposes of this international conference are as follows:

1. International Cooperation: Make good use of the network contacts of the Chinese-American Academic and Professional Association in the Southeastern United States (CAPASUS) and combine the professional advantages of the southeast region of the United States to enhance academic and industrial exchange between Taiwan and the United States, and strengthen the strategic partnership in all aspects (politics, economy, technology, society, education and culture) between Taiwan and the United States.

2. Professional Symposiums: Foster exchange of knowledge and experiences and initiate research collaborations between Taiwan and the United States scholars and professionals on related topics surrounding artificial intelligence, precision medicine, pandemic prevention with technology, and healthy aging.

3. Educational Opportunities: Provide most current research findings and best practices from Taiwan and the United States on artificial intelligence, precision medicine, pandemic prevention with technology, and healthy aging.

4. Young Scholar Care: Provide early career scholars with a supportive community, mentorship, and venue to present their research findings, and further their networking with senior academics and professionals within their fields.

5. Advance Deployment: In line with Taiwan's science and technology development policy, respond to the current challenges and needs of Taiwan and the United States in related issues such as medical care for the elderly, preparation in advance for Taiwan and the United States to enter a super-aged society, and create world-class quality of care for the elderly and achieve the goals of healthy aging.

Expected Benefits

The expected benefits of the 2023 International Conference are as follows:

1. International Cooperation: This international conference will promote academic and industrial exchange and cooperation between Taiwanese and American scholars in “artificial intelligence, precision medicine, technologies for pandemic prevention, and healthy aging”.

2. Professional Symposium: Both Taiwan and the United States are transforming to Smart Nations. Discussions in this international conference can stimulate more research interests and encourage speakers and participants to foster advanced collaboration for conducting interdisciplinary research projects.

3. Educational Opportunities: Participants of this international conference will learn the latest knowledge and research findings on artificial intelligence, precision medicine, technologies for pandemic prevention, and healthy aging.

4. Young Scholar Care: Young scholars are the cornerstone of future Taiwan-U.S. cooperation. Through presentations and mentorship, their growth and achievement are much more than their personal success; they constitute the connections between Taiwanese and American academic cohorts, accumulating, exchanging, and passing on knowledge and experiences from generation to generation.

5. Promoting Cooperation and Exchanges between Taiwan and Taiwanese Professional Societies in the Southeastern Region of the United States: The 2023 International Conference will be co-hosted by the Science and Technology Division of the Taipei Economic and Cultural Office in U.S. (Washington, D.C.) and the Chinese-American Academic and Professional Association in the Southeastern United States (CAPASUS). The North American Taiwanese Medical Association Atlanta, the Taiwanese Student Association at Georgia State University, the Taiwanese Student Association at Georgia Institute of Technology, and Emory University Taiwanese Student Association will assist in participation and planning of this international conference to enhance cooperation among Taiwanese professional societies in the southeastern United States and to encourage intergenerational technology and culture communication and dialogue.

6. Advance Deployment: To provide a platform for cooperation and exchange when Taiwan and the United States are about to enter the super-aged society stage, and to promote the strategy and development of building a world-class intelligent medicine and elderly care industry chains.

Organizers

The Chinese-American Academic and Professional Association in Southeastern United States (CAPASUS), USA

The Science and Technology Division of the Taipei Economic and Cultural Office in Washington, D.C., USA

Co-Organizers

North American Taiwanese Medical Association Atlanta, USA

Taiwanese Student Association at Georgia State University, USA

Taiwanese Student Association at Georgia Institute of Technology, USA

Emory University Taiwanese Student Association, USA

Conference Agenda

Friday, September 15, 2023

Time	Activity
2:30 - 4:30 pm	The U.S. Centers for Disease Control and Prevention (U.S. CDC) Museum Tour (Host: Seh-Ching Lin, Ph.D., U.S. Centers for Disease Control and Prevention)

Saturday, September 16, 2023

Time	Activity	
8:00 - 8:30 am	Registration	
8:30 - 9:00 am	Opening Ceremony (Moderator: Dr. Wei-Chin Lee) **Dr. Mei-Lan Chen**, President, CAPASUS **Director Shirley Yang**, Science and Technology Division, Taipei Economic and Cultural Representative Office in the U.S. **Director General , Elliot Wang,** TECO Atlanta	
Time	**Track**	**Speaker and Presentation Title**
9:00 - 9:30 am	**Keynote Speech**	(Moderator: Dr. Wun-Ju Shieh) **Dr. Jen-Hsiang Chuang** (Director General, Taiwan Centers for Disease Control) “Taiwan’s Experience in Pandemic Prevention and Control” (30 min)
9:30 - 10:20 am 10:20 – 10:30am (Q&A)	Technologies for Pandemic Prevention and Control	(Moderator: Dr. Jeani Chang) **Dr. L. Clifford McDonald** (Associate Director for Science, U.S. Centers for Disease Control and Prevention, USA) “Human Solutions Aided by Incremental Technologic Advancement: Infection Control of COVID-19 in Hospitals and Nursing Homes” (25 min; 9:30- 9:55 am)

		Dr. Wun-Ju Shieh (Former Deputy Branch Chief, U.S. Centers for Disease Control and Prevention, USA) "The Important Role of Biotechnology in Epidemic Control and Prevention" (25 min; 9:55- 10:20 am)
10:30 -10:40am	Coffee Break	
10:40 –11:55am	Artificial Intelligence and Healthy Aging (I)	(Moderator: Dr. Wei-Chin Lee) **Dr. Chih-Ching Matthew Hsu** (Flushing Hospital, New York; Founding and Senior Pastor, Union Bible Church, New York) "Artificial Intelligence, Spirituality, and Healthy Aging: Lesson Learned from King Solomon" (25 min; 10:40 – 11:05 am) **Dr. Hsin-Chien Lee** (Vice Dean, Taipei Medical University, Taiwan) "The Applications of Artificial Intelligence in Sleep Medicine" (25 min; 11:05 – 11:30am) **Dr. Shao-Yun Hsu** (Chang Gung Memorial Hospital, Linkou branch, Taiwan; Georgia Institute of Technology, USA) **"**Unleashing the Power of Artificial Intelligence in Plastic Surgery: Advancing Patient Care and Monitoring" (25 min; 11:30 – 11:55 am)
12:00 - 1:10pm	Luncheon	Host: Dr. Chu Chu Wu
1:15 – 1:40pm 1:40 – 1:50 pm	Artificial Intelligence and Healthy Aging (II)	(Moderator: Dr. Wei-Chin Lee) **Dr. James Tsai** (Professor, Georgia Institute of Technology, USA)

(Q&A)		"Using Artificial Intelligence, Computer Vision, and Advanced Technologies to Enhance Physical Activity in Older Adults" (25 min; 1:15 – 1:40 pm)
1:50 - 3:05pm 3:05- 3:15pm (Q&A)	Precision Medicine and Healthy Aging	(Moderator: Dr. Yao-Wen Huang) **Dr. Jung-Lung Hsu** (New Taipei Municipal TuCheng Hospital; Taipei Medical University, Taiwan) "Toward Precision Medicine in Alzheimer's Disease" (25 min; 1:50 – 2:15 pm) **Dr. Meng-Chang Hsiao** (Associate Medical Director, Vanderbilt University Medical Center, USA) "Precision Medicine: Revolutionizing Healthcare through Personalized Approaches and Genetic Insights" (25 min; 2:15 – 2:40 pm) **Dr. Christopher Celano** (Associate Director, Massachusetts General Hospital; Harvard Medical School, USA) "Cardiac Psychiatry: Promoting Mental and Physical Health in Cardiovascular Disease" (25 min; 2:40 – 3:05 pm)
3:15 -3:25pm	Coffee Break	
3:25-4:40 pm 4:40 – 5:00pm Awards Presentation	Early Career Scholar Presentations and Awards	Early Career Scholar Presentations (Moderator: Dr. James Tsai) Awards Presentation (Host: Dr. Alice Stanley , Dr. Raymond Ho, Dr. Willie Chen, Dr. David Cheng) **Yen Chen** (Ph.D., University of Michigan) "Compensatory Cognitive Strategy Use in People with Systemic Sclerosis" (12 min)

		Po-Kai Hsu (Ph.D. Student, Georgia Institute of Technology) **"**3D NAND-Based In-Memory Hyperdimensional Computing System for Genome Sequencing Applications" (12 min) **Thomas Hsiao** (Ph.D. Candidate, Emory University) "Association between spontaneous abortion and ambient air pollution using birth registry data in Georgia, USA: a matched case-control study, 2005-2014" (12 min) **Wei-Yi Lee** (Ph.D. Candidate, University of Georgia) "Heritage Language Learning for Second- and Third-Generation Taiwanese Americans Promoting Linguistic and Ethnic Equality" (12 min) **Chu Yun Chen** (Georgia State University) "The Health Benefits of Ba Duan Jin Exercise in Older Adults" (12 min)
6:30 - 9:00pm	Banquet	Host: Po-Kai Hsu and Thomas Hsiao

Sunday, September 17, 2023

Time	**Activity**	
9:00-9:20am	Registration	
9:20-9:30am	Opening Remarks **Dr. Mei-Lan Chen**, President, CAPASUS **Director Shirley Yang**, Science and Technology Division, Taipei Economic and Cultural Representative Office in the U.	
Time	**Track**	**Speaker and Presentation Title**
9:30-10:50am	Panel Discussion: Holistic Care for Healthy Aging	(Moderator: Dr. Chung-Yi Niou) **Dr . Taian Wang** (Spine Center Atlanta, GA)

		Dr. Li-Kun (Oliver) Tu (Northside Hospital, GA) **Dr. Chih-Ching Matthew Hsu** **(**Flushing Hospital, New York; Founding and Senior Pastor, Union Bible Church, New York**)** **Dr. Jung-Lung Hsu** (Director, New Taipei Municipal TuCheng Hospital; Professor, Taipei Medical University, Taiwan) **Dr. Hsin-Chien Lee** (Vice Dean, Taipei Medical University, Taiwan) **Dr. Mei-Lan Chen** (Assistant Professor, Georgia State University)
10:50-11:00am	Coffee Break	
11:00 - 12:00 pm	Panel Discussion: Early Career Scholar Mentorship Session: Career Development	(Moderators: Jeffrey Lin, Eric Lin, and Andrew Hsu) **Dr. Wun-Ju Shieh** (Former Deputy Branch Chief, U.S. Centers for Disease Control and Prevention, USA) **Dr. James Tsai** (Professor, Georgia Institute of Technology, USA) **Dr. Chin-Tser Huang** (Professor, University of South Carolina, USA) **Dr. Chu Chu Wu** (Professor, Georgia Southwestern State University)
12:00 - 12:20pm	Closing and Farewell **Dr. Mei-Lan Chen**, President, CAPASUS **Director Shirley Yang**, Science and Technology Division, Taipei Economic and Cultural Representative Office in the U.S.	

Taiwan's Experience in Pandemic Prevention and Control

Dr. Jen-Hsiang Chuang, Ph.D., MD
Director-General, Taiwan Centers for Disease Control

Abstract

The COVID-19 pandemic has affected every country over the past three years. Taiwan has experienced several peaks of infection and has made great efforts to control the pandemic and mitigate its impact, including increasing vaccination coverage and timely adjusting its control measures as the less virulent variants emerged.

Taiwan's COVID-19 prevention strategies can be categorized into three stages:

1. Interruption of transmission: In the absence of antivirals and vaccines, non-pharmaceutical interventions such as border control were implemented to prevent the virus from entering the community.
2. Increased immunization: As vaccines became available, a national immunization program was launched to increase vaccine coverage nationwide.
3. Coexistence with the virus (low fatality and mostly asymptomatic): The Omicron strain is highly transmissible, but causes only mild symptoms and a low fatality rate. Control measures have been gradually loosened.

Taiwan didn't impose a lockdown throughout the pandemic and only implemented strict restrictions for 70 days, and its economic growth was largely unaffected. Around 68 million vaccine doses were administered by May 2023. The coverage for a first dose reached 92%, 87% for a second dose, and 76% for a booster shot. As of May 1, 2023, there were around 10 million confirmed cases and 19,000 deaths, and the case fatality rate was 0.19%, lower than many other countries in the world.

With the lessons learned from this pandemic, we are reviewing our current COVID-19 response strategies and revising the national pandemic response plans and related regulations.

Dr. Jen-Hsiang Chuang is the Director-General of the Taiwan Centers for Disease Control (Taiwan CDC). He earned both of his M.D. and M.S. in Public Health from National Yang-Ming University (NYMU) and received a Ph.D. in Biomedical Informatics from Columbia University in 2003.

From 2003 to 2005, Dr. Chuang was the jointly appointed associate professor of the Institute of Public Health and the Institute of Health Informatics and Decision Making at NYMU. He is currently an adjunct associated professor at National Yang Ming Chiao Tung University (NYCU).

Bio

In 2005, Dr. Chuang began his career in public health as an associate researcher at Taiwan CDC. In this role, he led initiatives to reform the national infectious disease surveillance system and to recruit and train the staff to develop more advanced skills for analyzing the surveillance data. These initiatives improved Taiwan's ability to detect and response emerging infectious diseases. He was promoted to the Deputy Director-General of Taiwan CDC in 2013. During the COVID-19 pandemic over the past three years, he served as the spokesperson of National Epidemic Command Center to communicate with journalists and share relevant information with the public in a timely manner. He has been a board member of the Taiwan Drug Relief Foundation for Drug Hazards since 2016 and a board member of the Taiwan Blood Services Foundation during 2018-2021, further demonstrating his commitment to public health.

Human Solutions Aided by Incremental Technologic Advancement: Infection Control of COVID-19 in Hospitals and Nursing Homes

L. Clifford McDonald, MD, FSHEA
Associate Director for Science, U.S. Centers for Disease Control and Prevention, USA

Abstract

There are no technologic solutions to human problems, only human solutions aided by incremental technologic advancements. Nowhere is this more evident than our collective experience with infection control of COVID-19 in hospitals and nursing homes. Reflecting on phases of the pandemic, defined not by viral variants but by pre- and post-availability of rapid testing, vaccines, and therapeutics, we review pressing challenges and how they were addressed. In earliest phases, alternative models of care delivery including telemedicine, remote triage, free-standing immunization and testing venues, and efforts to cohort patients protected the healthcare system. There were also efforts to mitigate challenges such as crisis approaches for addressing shortages of personal protective equipment, rapid training initiatives to address high turnover and staffing shortages, and focused epidemiologic studies coupled with modeling to provide concise answers to pressing infection control questions. Situational awareness of hospital and nursing home bed capacity became essential, along with tracking and controlling outbreaks in nursing homes. With widespread availability of rapid tests, understanding how they could be used to control transmission became important, especially in nursing homes. Likewise, once vaccines were available, understanding their efficacy in nursing home residents became urgent. Situational awareness of both test positivity, as well as vaccination coverage, remains key in nursing homes. Ongoing investigation of facility wastewater surveillance to track infections, greater emphasis on ventilation, and advancing immune correlates of protection appear promising.

Bio

Dr. McDonald is trained as an infectious disease physician, medical microbiologist, and healthcare epidemiologist. He is a former officer in the Epidemic Intelligence Service and former Chief of the Prevention and Response Branch in the Division of Healthcare Quality Promotion at the CDC where he currently serves as the Associate Director for Science. He is the author or co-author of over 150 peer-reviewed publications with his main interests in the epidemiology and prevention of healthcare-associated infections, especially Clostridium difficile infections, understanding microbial ecology and the role of the human microbiome, and the prevention of antimicrobial resistance. Throughout his approximately 20-year career at the CDC, Dr. McDonald has had various leadership roles in national and international pandemic responses, from SARS to COVID-19. Dr. McDonald is a Fellow of the Society for Healthcare Epidemiology of America, and a member of the Infectious Diseases Society of America.

The Important Roles of Biotechnology in Epidemic Control and Prevention

Wun-Ju Shieh, MD, MPH, Ph.D., DrPH (h.c.); FIDSA, FASCP, FRSM
Former Deputy Branch Chief, U.S. Centers for Disease Control and Prevention, USA

Abstract

Many novel pathogens emerged in the past 30 years; some of them cause pandemics and constantly pose threat to global health. Detection and surveillance of emerging pathogens need a multidisciplinary approach. The prompt management, especially control and prevention of these emerging infectious diseases depends on accurate and rapid diagnosis. Laboratory methods are essential to identify an etiologic agent from testing clinical samples, such as blood, serum, nasopharyngeal swab, etc. These methods, including traditional microbiological techniques, conventional immunological assays, and modern molecular methods, remain the mainstay in today's practice of clinical microbiology and infectious disease medicine. A variety of new technologies have revolutionized the characterization of pathogens and antimicrobial susceptibility testing. However, no matter how advanced, these technologies are often associated with various technical and logistic issues, and the test results often lack a clinic-pathologic-microbiologic correlation that can confound the interpretation of their clinical significance. Pathology plays a key role as a bridging subspecialty in the multidisciplinary approach to detect the novel pathogens. Pathologic examination on tissue samples, if available, can establish a more specific diagnosis correlated with clinical manifestations, especially during an outbreak investigation. The practice of modern pathology has evolved from using morphologic pattern recognition as the main tool to a sophisticated medical subspecialty by applying a wide array of advanced immunologic and molecular techniques on top of the traditional methods. There are multiple examples to underscore the importance of using modern technologies for pandemic control and prevention.

Bio

Dr. Wun-Ju Shieh retired from the Infectious Diseases Pathology Branch, Centers for Disease Control and Prevention (CDC) as the Deputy Branch Chief in July 2020 after 25 years of service. He is now appointed as a Visiting Professor at Department of Microbiology and Immunology, Taipei Medical University and recently joined the 2022-2024 roster of American Society for Microbiology Distinguished Lecturer (ASMDL) program. Dr. Shieh graduated from Taipei Medical University in 1979. After completion of internal medicine residency and infectious disease subspecialty training in 1986, he moved to the U.S. to continue his pursuit of professional career. He received a Master of Public Health from Harvard School of Public Health in 1987 and a Ph.D. in Microbiology & Immunology from Vanderbilt School of Medicine in 1992. Afterwards, he completed a combined anatomic and clinical pathology residency training at Vanderbilt University Medical Center and an infectious disease pathology fellowship at CDC. He participated many outbreak investigations during his tenure at CDC, including the 1995 Ebola in Zaire, 1998 EV71 in Taiwan, 1999 Nipah virus in Malaysia, 1999 West Nile virus in USA, 2001 anthrax in USA, 2003 SARS in Vietnam and Taiwan, 2003 monkeypox in USA, 2009 pandemic H1N1 influenza, and 2020 COVID-19 pandemic, etc. He has authored or co-authored more than 200 scientific articles and 12 book chapters. He has delivered more than 270 talks at international, national, regional meetings, workshops, and various institutes in the past thirty years.

Artificial Intelligence, Spirituality, and Healthy Aging: Lesson Learned from King Solomon

Dr. Chih-Ching Matthew Hsu, MD
Flushing Hospital, New York; Founding and Senior Pastor, Union Bible Church, New York

Abstract

King Solomon was one of the most intelligent and wise kings in history. We even can call him the AI of that time, or more precisely DI, Devine intelligence. Why is it then that in his old age, his country was in such chaos? There were heavy taxes, social and economic system corruption, miscarriage of justice, and his people were in dire straits. Eventually his nation would be split into two. King Solomon authored 3 books that were included into the Biblical canon – Song of Songs, Proverbs, and Ecclesiastes. Song of Songs is his love story from his youth; Proverbs is the Book of Wisdom, written during his middle age; and Ecclesiastes is a memoir with the perspective from old age. In Ecclesiastes, Solomon described his whole life as a "life of vanity" and he himself suffered severe depression and a split of personality. Why would a king so wise and intelligent fall into such a condition? Even at the conclusion of his life, "the LORD became angry with Solomon, because his heart had turned from the LORD God of Israel, who had appeared to him twice" (1 Kings 11:9). Let us analyze why King Solomon did not age joyfully and healthily.

Bio

Born on October 23, 1951 during the severe Hua-Lian earthquake in Taiwan, Pastor Hsu immigrated to New York in 1978 and is now 72. Dr. Hsu graduated from Taipei Medical college in 1976, and received complete surgical training in Flushing Hospital and medical center, and is an attending surgeon at Flushing Hospital in Queens, New York. He is also the founding and Senior Pastor of the Union Bible Church (UBC) in Flushing, New York which has 3 daughter churches at present. He also serves as an Associated Pastor at the Bowne Street Community Church in Flushing, New York. Pastor Hsu graduated from the Evangelical Mission Seminary International (EMSI) in August of 2004 and was sent to Cape Town, South Africa to serve as a missionary for one year. In 2006, he served for 3 ½ years at Binghamton Christian Church in Binghamton, New York. Following that, he founded UBC and has served as Senior Pastor from 2012 until the present. He received the degree of Doctor of Divinity in 2019.

The Applications of Artificial Intelligence in Sleep Medicine

Hsin-Chien Lee, MD, MPH

[1]Associate Professor & Director, Research Center of Sleep Medicine & Department of Psychiatry, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan

[2]Vice Dean, College of Humanities & Social Sciences, Taipei Medical University, Taipei, Taiwan

[3]Visiting Staff & Chair, Department of Psychiatry & Sleep Center, Taipei Medical University Hospital

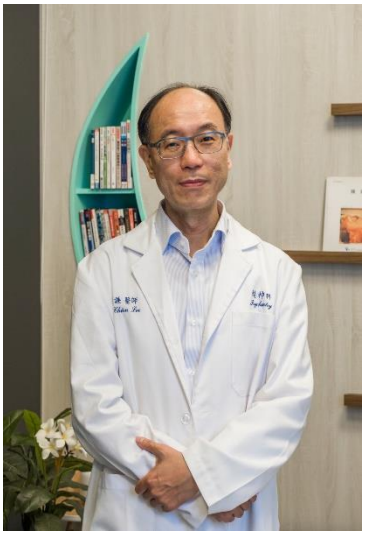
Abstract

Although sleep medicine is a young branch of medical sciences, its has been continually and rapidly growing in the past few decades. The speedy development of sleep medicine is not only due to the rising need of healthcare for various sleep disorders but is also linked to the growth of sleep technologies, particularly consumer sleep technologies.

In Taiwan, sleep medicine developed relatively late. In 1980s, there were only few large medical centers providing clinical services for patients with sleep disorders. Nowadays, there are more than 60 sleep centers providing quality services in Taiwan. Since Taiwan is one of the world's leading producers of information and communication technology, there are much more opportunities to develop sleep technologies through industry-academia collaboration. Facing the booming artificial intelligence (AI), the application of AI in sleep medicine also draws a lot of attention in several industry-academia collaboration projects.

In this presentation, topics below will be covered and briefly discussed:

1. The development of sleep medicine in Taiwan.
2. The development of medical and consumer sleep technologies.
3. The case scenario in Taiwan of the application of AI in sleep medicine.



Bio

Dr. Hsin-Chien Lee is a psychiatrist specialized in sleep medicine. He completed his MD degree in Taipei Medical University at Taipei, Taiwan and got his Master of Public Health (MPH) degree in Columbia University, New York City. Currently serving as an Associate Professor and Director in the department of psychiatry and sleep center at Taipei Medical University Hospital. Dr. Lee has dedicated over 15 years to advancing the diagnosis and management of sleep disorders, insomnia in particular.

Dr. Lee's research interests focus on discovering the impact of sleep disorders on physical health and cognitive function. He also participated several industry-academic collaboration projects to developing and verifying innovative diagnostic approaches for sleep disorders. He has published 150s research papers in peer reviewed journals in this field, including Sleep, Sleep Medicine Review, Journal of Clinical Sleep Medicine and so on. Dr. Lee has also conducted many clinical trials in pharmacological and non- pharmacological management of chronic insomnia and hopefully find out novel treatment modalities for this prevalent sleep disorder.

Dr. Lee also devoted himself into sleep health education for medical students and the public. His contributions to the field continue to shape the future of sleep medicine, paving the way for advancements in preventive and precision sleep medicine.

Unleashing the Power of AI in Plastic Surgery: Advancing Patient Care and Monitoring

Dr. Shao-Yun Hsu, MD
Attending Surgeon, Division of Reconstructive Microsurgery,
Department of Plastic Reconstructive Surgery of Chang Gung Memorial Hospital, Linkou branch, Taoyuan city, Taiwan

Abstract

In the realm of plastic surgery, cutting-edge advancements in Artificial Intelligence (AI) are reshaping the landscape of patient care. Two groundbreaking studies highlight the transformative potential of AI in revolutionizing the field.

The first study introduces a smartphone-based AI-assisted image processing algorithm for eyelid measurements, crucial for ptosis evaluation and management. This innovative solution eliminates the subjectivity and human errors associated with manual measurements. By using a smartphone and AI technology, clinicians can quickly and objectively determine Margin Reflex Distance 1 (MRD1), Margin Reflex Distance 2 (MRD2), and Levator Muscle Function (LF) measurements. The algorithm's impressive accuracy, with correlation coefficients surpassing 0.88, promises a convenient and efficient approach to ptosis assessment.

The second study focuses on free flap monitoring, a critical aspect of post-microsurgical management. Traditionally reliant on human observers, this process is qualitative and burdensome. However, the scenario changes with the development of a clinical transitional deep learning model integrated into an iOS application. The AI-powered application quantifies and monitors free flap conditions with an accuracy of 95.3%. This breakthrough empowers clinicians with valuable insights, enhances patient safety, and reduces staffing pressures, significantly advancing post-microsurgical care.

In summary, integrating AI in plastic surgery is revolutionizing patient evaluation and management. These studies demonstrate that AI-driven solutions streamline processes, enhance accuracy, and ultimately improve patient outcomes. As we embrace the potential of AI in healthcare, plastic surgery stands at the forefront of this transformative revolution, paving the way for a future of precise and efficient medical practices.

Bio

Dr. Shao-Yun Hsu is an esteemed reconstructive microsurgery expert with a remarkable clinical practice and research background. Having obtained board certifications in surgery from the Taiwan Board of Surgery and in plastic surgery from the Taiwan Board of Plastic Surgery, Dr. Shao-Yun Hsu has been serving as a plastic reconstructive attending surgeon at Chang Gung Memorial Hospital in Taiwan since early July 2019.

Throughout Shao-Yun Hsu's career as a clinician, they have consistently delivered exceptional clinical care in both reconstructive and cosmetic surgeries. Over the past two years, Dr. Shao-Yun Hsu has primarily focused on reconstructive microsurgery and has successfully completed an impressive two hundred and twelve microsurgeries, a rarity in the field of plastic surgery with an

outstanding 99.1% success rate and an impressively low re-operation rate. Dr. Shao-Yun Hsu excels in both the quantity and quality of surgeries performed.

Beyond their clinical accomplishments, Dr. Shao-Yun Hsu is at the forefront of utilizing cutting-edge technology in their field. Recognizing the significance of visual assessment in plastic surgery, particularly in rejuvenation procedures, they are committed to researching and incorporating artificial intelligence, specifically Computer Vision applications, to improve visual assessment and patient care.

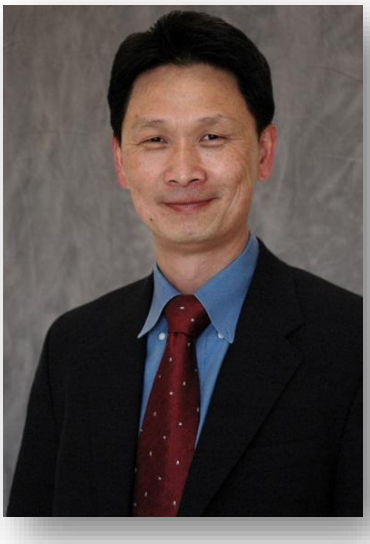
As a practitioner in an era of rapid advancements in artificial intelligence, Dr. Shao-Yun Hsu strives to revolutionize the field of plastic surgery by harnessing the potential of AI to enhance the quality and precision of procedures and patient outcomes. Their dedication to clinical excellence and innovative research makes them a leading figure in reconstructive microsurgery and beyond.

Using Artificial Intelligence, Computer Vision, and Advanced Technologies to Enhance Physical Activity in Older Adults

Dr. Yichang (James) Tsai, Ph.D.
Professor, Georgia Institute of Technology, USA

Abstract

As the world population is ageing and considering the recent lockdowns imposed by the COVID-19 pandemic, the ability to perform physical activities at home has become very important for seniors in order to reduce the risk of serious diseases, enhance their mobility, and maintain a healthy physical condition. This talk presents the existing systems that enable seniors to independently perform physical activities in their home. It focuses on the smart systems that use artificial intelligence, computer vision, and advanced technologies to ensure user safety and to provide a detailed health assessment without any human intervention. As a result, most of the technologies reviewed presenting systems that were designed for seniors to perform simple physical exercises. The online features, when existing, are used to store data online and perform computations; the technologies are mostly cameras and wearable sensors. Most of the time, the smart features consist of those that recognize the performed exercise; however, the systems do not provide advanced safety checking and health assessment features, and, sometimes, they require expensive equipment. Future recommendations include the categorization of the different systems based on whether the user's health risk is critical or mild and difficult or not to detect.



Bio

Dr. Yichang (James) Tsai is a professor in the School of Civil and Environmental Engineering and also an adjunct professor in the School of Electrical and Computer Engineering (CEE) at Georgia Tech.

He is currently the group leader of Construction and Infrastructure Systems Engineering (CISE) in CEE at Georgia Tech. He is also the founding director of the “Center of Safe Mobility for Aging Population”, competitively selected for funding by Georgia Tech Seed Grant – Building Teams and Moving Teams Forward. Dr. Tsai received his Ph.D. (1996) and MS (1994) from Georgia Tech. Dr. Tsai’s research focuses on applying sensing technologies (3D laser, Lidar and smart phone technologies), computer vision, AI, and GIS spatial analysis to 1) automated pavement condition evaluation and asset management, 2) transportation safety, 3) vehicle energy-emission reduction and 4) safe mobility of aging population. Dr. Tsai is a worldwide leader in the development and implementation of automated pavement distress detection and diagnosis (e.g., cracking, rutting, pothole, raveling, etc.), using 3D laser technology with computer vision and machine learning. Dr. Tsai’s leadership has great national impact as evidenced by his development of an open-format 2D/3D Pavement Surface Image (.PSI) that has become the US national standard. Dr. Tsai has served on the technical committee of the United States National Cooperative Highway Research Program (NCHRP) 20-102 (06) Road Markings for Machine Vision, and NCHRP 20-102 (28)) “Prepared for Transportation Agencies in Workzones for Autonomous and Connected Vehicles”, two of 34 connected and automated vehicles research projects sponsored by the USDOT. Since 2010, he has served as the Associate Editor of the ASCE Journal of Computing in Civil Engineering.

Toward Precision Medicine in Alzheimer’s Disease

Dr. Jung Lung Hsu, Ph.D., MD

Department of Neurology, New Taipei Municipal TuCheng Hospital, Chang Gung Memorial Hospital and Chang Gung University, New Taipei City, Taiwan

Abstract

Alzheimer's disease (AD) is a complex and devastating neurodegenerative disorder that affects millions of people worldwide. The pathogenesis of AD is multifactorial, involving various genetic, epigenetic, environmental, and lifestyle factors, which contribute to the disease's heterogeneity and clinical variability. The lack of effective therapies for AD underscores the urgent need for personalized and precision medicine approaches that consider each patient's unique biological, clinical, and environmental characteristics.

Precision medicine in AD aims to identify subgroups of patients with distinct pathophysiological and clinical features and tailor treatments to their specific needs. This approach relies on the integration of multiple data sources, including genomics, proteomics, metabolomics, imaging, clinical assessments, and patient-reported outcomes. Recent advances in high-throughput technologies and machine learning algorithms have enabled the collection, processing, and analysis of large-scale data sets from diverse sources, providing new insights into AD's underlying mechanisms and identifying potential biomarkers and drug targets.

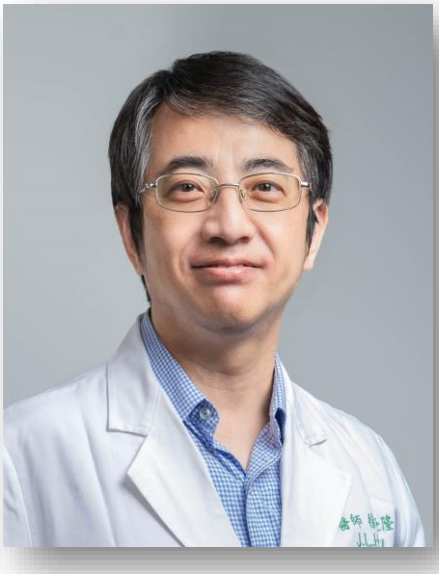
Several precision medicine initiatives and clinical trials are underway to develop and validate new diagnostic and therapeutic strategies for AD. For example, the Alzheimer's Disease Precision Medicine Initiative (ADPMI) aims to identify subgroups of AD patients based on genetic, molecular, and clinical criteria and test targeted therapies in preclinical and clinical settings. The Trial-Ready Cohort for Preclinical and

Prodromal Alzheimer's Disease (TRC-PAD) aims to identify and enroll individuals at risk for AD and accelerate the development of effective treatments by using innovative trial design and adaptive screening strategies.

Despite these promising developments, several challenges remain in implementing precision medicine in AD, including data integration, standardization, privacy, and ethical considerations. Moreover, the high cost and complexity of precision medicine approaches may limit their accessibility and feasibility for many patients.

In conclusion, precision medicine has the potential to revolutionize the diagnosis, treatment, and prevention of AD by providing personalized and effective solutions for each patient's unique needs. However, a concerted effort is needed to overcome the challenges and ensure that precision medicine benefits all individuals affected by AD.

Bio



Dr. Jung-Lung Hsu is a neurologist, with a diverse background spanning medicine and medical imaging. He completed his PhD degree from Image Science Institute at Utrecht University, the Netherland and medical engineering at National Taiwan University. Currently serving as a Professor at Taipei Medical University, Professor at Chang Gung Memorial Hospital and director of department of Neurology at New Taipei Municipal TuCheng Hospital, New Taipei City. Dr. Hsu has dedicated over 25 years to advancing the understanding and diagnosis of dementia.

Dr. Jung Lung Hsu is a distinguished neurologist in the medical field with a keen interest in unraveling the phenotype of dementia and utilizing biomarkers to investigate glymphatic activity and pathologic proteins in Alzheimer’s disease. His groundbreaking research has garnered recognition in esteemed neurology journals, such as The Annals of Neurology, Neurology, and Scientific Reports. Through his studies, Dr. Hsu has made significant contributions to our understanding of Alzheimer's disease and image biomarkers, shedding light on critical aspects of its pathophysiology.

In his pursuit of enhancing diagnostic accuracy and advancing dementia care, Dr. Hsu actively collaborates with various research groups specializing in neuroinflammation, movement disorders, and neuroimaging, as well as information technologists. This multidisciplinary approach allows him to make meaningful contributions to the field, shaping the future of dementia diagnosis and care. Driven by his passion for precision medicine and personalized treatments, Dr. Hsu's work sets the stage for transformative advancements in the field.

Precision Medicine: Revolutionizing Healthcare through Personalized Approaches and Genetic Insights

Dr. Meng-Chang Hsiao, Ph.D.
Associate Medical Director, Vanderbilt University Medical Center, USA

Abstract

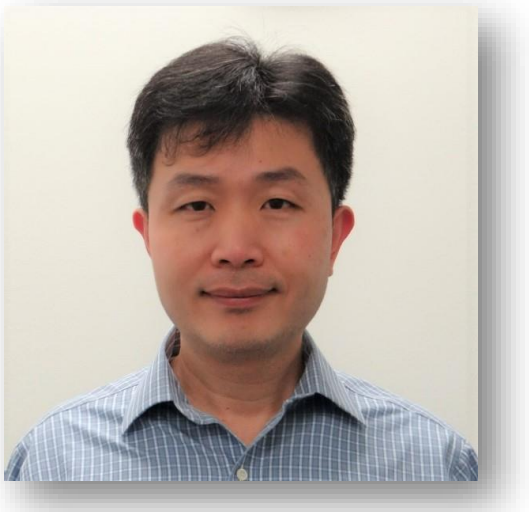
Precision Medicine represents a transformative paradigm shift in healthcare, aiming to revolutionize medical diagnosis, treatment, and prevention through personalized approaches. In stark contrast to the traditional one-size-fits-all model, Precision Medicine recognizes the inherent diversity among individuals and acknowledges the critical role of genetic variations in disease development. Extensive research has revealed that numerous disorders are intricately linked to specific gene changes, providing a foundation for precision-based interventions.

By leveraging the vast knowledge gained from genetic profiling, healthcare professionals can tailor medical decisions and interventions to optimize effectiveness and minimize potential adverse effects. Moreover, the proactive nature of Precision Medicine allows for preemptive actions, targeting the prevention of illnesses before they manifest. This approach not only enhances patient outcomes but also holds the potential to reshape the healthcare landscape by mitigating the burden of chronic diseases.

To fully realize the potential of Precision Medicine, researchers are diligently expanding their understanding of various factors that influence health, including environmental influences, lifestyle choices, and genetic heredity. By integrating comprehensive genetic information with these multifaceted elements, Precision Medicine strives to streamline the translation of cutting-edge research into routine medical practice.

The accelerating adoption of Precision Medicine is poised to generate profound improvements in patient care, ushering in an era of optimized treatments and cost reductions within healthcare systems. As the field advances, Precision Medicine has the potential to empower healthcare providers with the tools and insights necessary to deliver personalized care at an unprecedented level, thereby revolutionizing the standard of medical practice.

Bio



Dr. Meng-Chang Hsiao is a human geneticist, with a diverse background spanning academia and industry. He completed his PhD degree in Genetics from the University of Alabama at Birmingham, and Laboratory Genetics and Genomics fellowship at Columbia University Medical Center. Currently serving as an Assistant Professor and Associate Medical Director in Cytogenetics and Molecular Diagnostics at Vanderbilt University Medical Center. Dr. Hsiao has dedicated over 15 years to advancing the understanding and diagnosis of genetic disorders.

Dr. Hsiao's research interests lie in unraveling the

intricate mechanisms underlying genetic diseases and developing innovative diagnostic approaches. His groundbreaking research has been published in prestigious genetics journals, including The American Journal of Human Genetics, Human Mutation, British Journal of Dermatology, Neurogenetics, Cancer Genetics, and Molecular Diagnosis & Therapy. These studies have elucidated critical aspects of both germline disorders and solid tumors, advancing our understanding and paving the way for innovative diagnostic and therapeutic approaches. In addition to academic achievements, Dr. Hsiao has also worked with prominent diagnostic companies, including Sema4 and Jackson Laboratory. This industry experience has further enhanced his expertise and provided valuable insights into the practical applications of genetic research.

Driven by a passion for improving patient outcomes and enhancing the quality of genetics healthcare, Dr. Hsiao remains dedicated to fostering collaborative research and mentoring the next generation of geneticists. His contributions to the field continue to shape the future of genetics, paving the way for advancements in precision medicine and personalized treatments.

Cardiac Psychiatry: Promoting Mental and Physical Health in Cardiovascular Disease

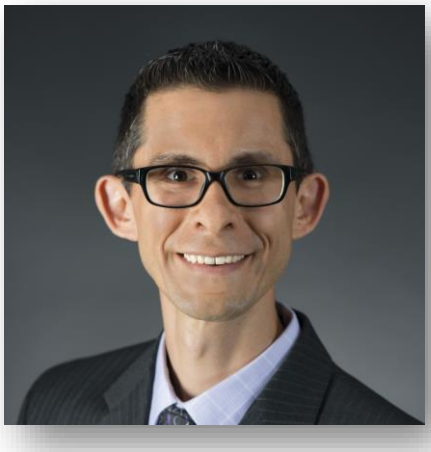
Christopher Celano, M.D.
Associate Director, Massachusetts General Hospital; Harvard Medical School, USA

Abstract

Cardiovascular disease affects over 26 million people in the United States and is the leading cause of death worldwide. Both negative and positive psychological constructs are associated with cardiovascular health. Negative psychological constructs, such as depression or anxiety, are associated with both the development and progression of cardiovascular disease, while psychological well-being and related constructs have been linked to improved cardiovascular health. These relationships may be explained by both biological (e.g., inflammation) and behavioral (e.g., physical activity) factors. Given the links between certain psychiatric illnesses (e.g., depression, anxiety disorders) and health outcomes, it is important to identify these illnesses and treat them, as available treatments for these disorders are safe, have been shown to improve mental health, and may improve cardiovascular health as well. Even in the absence of psychiatric illness, engaging in activities to enhance well-being, such as engaging in enjoyable or meaningful activities, expressing gratitude, or performing acts of kindness towards others, can have both mental and physical health benefits. In this presentation, Dr. Celano will discuss the evidence base for the relationships between mental and cardiovascular health, treatments for common psychiatric illnesses, and interventions to promote well-being and cardiovascular health behaviors. He also will provide attendees with practical tips to identify symptoms of psychiatric disorders, know when to refer individuals to a mental health professional, and engage in activities to promote well-being in their lives.

Bio

Dr. Celano is the Associate Director of the Cardiac Psychiatry Research Program at Massachusetts General Hospital (MGH) and an Associate Professor of Psychiatry at Harvard Medical School. After completing his



undergraduate training at the Johns Hopkins University, Dr. Celano received his M.D. degree from the Mount Sinai School of Medicine in New York, NY. He attended the MGH/McLean Adult Psychiatry Residency Program and then completed a clinical fellowship in Psychosomatic Medicine at MGH.

Dr. Celano's research focuses on the development of interventions to promote well-being and adherence to healthy behaviors, such as physical activity or a healthy diet. He has led studies to develop and implement these types of interventions, including an ongoing project to evaluate the efficacy of a psychological intervention to promote adherence to healthy behaviors in heart failure. He also has worked on multiple other projects related to health behavior promotion or the use of collaborative care to better identify and treat depression and anxiety disorders in individuals with heart disease. He has published over 100 articles, including over 60 original research articles and five meta-analyses, and he has presented the results of his work at both national and international conferences.

Dr. Celano has received several awards for his academic work and research, including the William H. Webb Fellowship award from the Academy of Psychosomatic Medicine, an Early Career Researcher Mentee Award from the Academy of Consultation-Liaison Psychiatry, and a K23 Career Development Award from the National Heart, Lung, and Blood Institute.

Young Scholar Excellent Presentation Awards

Conference Presentation (Moderator: James Tsai, Ph.D.)

Awards Presentation (Host: Dr. Alice Stanley , Dr. Raymond Ho, Dr. Willie Chen, Dr. David Cheng)

Compensatory Cognitive Strategy Use in People with Systemic Sclerosis
Presenter: Yen Chen
(Ph.D., University of Michigan)

3D NAND-Based In-Memory Hyperdimensional Computing System for Genome Sequencing Applications
Presenter: Po-Kai Hsu
(Ph.D. Student, Georgia Institute of Technology)

Association between spontaneous abortion and ambient air pollution using birth registry data in Georgia, USA: a matched case-control study, 2005-2014
Presenter: Thomas Hsiao
(Ph.D. Candidate, Emory University)

Heritage Language Learning for Second- and Third-Generation Taiwanese Americans Promoting Linguistic and Ethnic Equality
Presenter: Wei-Yi Lee
(Ph.D. Candidate, University of Georgia)

The Health Benefits of Ba Duan Jin Exercise in Older Adults
Presenter: Chu Yun Chen
Georgia State University

Compensatory Cognitive Strategy Use in People with Systemic Sclerosis

Yen Chen, Ph.D.
University of Michigan

Abstract

Background: Systemic sclerosis (SSc) is a rare and severe autoimmune disease affecting the skin and internal organs. People with SSc often report cognitive problems that significantly impact their symptoms and daily life functioning. Compensatory cognitive strategies (CCS) show promise in helping people manage cognitive problems. However, the utilization of CCS in the SSc population remains poorly understood. The study aims to: 1) examine if CCS use differs by demographics and 2) investigate associations between self-reported cognitive function and symptoms with CCS. Methods: The CCS, a 24-item questionnaire was used to assess how frequently participants use ways to compensate their cognitive problems. Self-reported cognitive function and symptoms (e.g., fatigue, pain, depressed mood) were assessed with Patient-Reported Outcomes Measurement Information System (PROMIS) measures. Independent t-test and one-way analysis of variance were conducted to examine whether CCS use differs by demographics. Multiple regression was conducted to examine independent associations of cognitive function and symptoms with CCS. Results: Of 106 participants (Mean age 55.2 ± 11.5 years), mostly female (84%) and White (82%). Participants with some college reported significantly more CCS use compared to people with a high school degree. Worse cognitive function ($\beta = -0.26$, $p < .05$) and pain ($\beta = 0.28$, $p < .05$) were independently associated with more CCS use. Conclusion: Less educated individuals were least likely to report CCS use. Worse cognitive function and pain were associated with CCS, suggesting the potential of integrating CCS in symptom self-management programs in SSc. Future longitudinal research should investigate the effectiveness of CCS in this population.

Bio

Dr. Yen Chen is a Postdoctoral Research Fellow in the Rheumatology Division at the University of Michigan. She completed her Ph.D. in Health Behavior and Health Education from the University of Texas at Austin in 2020. She is a health behavior researcher who is passionate about improving the quality of life in vulnerable populations through research that examines the impact of health behaviors, symptom experiences, and psychosocial factors on health-related outcomes. Currently, her research focuses on understanding the symptom experiences of individuals with chronic diseases, with a primary focus on investigating the impact of burdensome symptoms, such as pain, fatigue, depressed mood, and cognitive dysfunction, on daily life functioning and health-related quality of life in people with scleroderma. Dr. Chen's work holds significant potential to improve the lives of those affected by scleroderma.

3D NAND-Based In-Memory Hyperdimensional Computing System for Genome Sequencing Applications

Po-Kai Hsu
Georgia Institute of Technology

Abstract

Over the past few decades, significant progress has been made in the field of genomics. Genome sequencing, a key component of genomics, has numerous promising applications, including the interpretation of genomic information for disease diagnosis and treatment, tracking disease outbreaks, and determining taxonomic relationships, among others. As a result of advancements, genomic databases have expanded rapidly, turning genomics into an active application area for computing. Due to the high-throughput, biased, and noisy nature of genomic data, computing plays a crucial role by providing algorithms for modeling and analysis, high-performance hardware, and efficient memory solutions. As genomic databases continue to grow in size, the importance of hardware-algorithm codesign for genome sequencing has become increasingly significant. Recently, hyperdimensional (HD) computing has emerged as a valuable tool for performing learning tasks using high-dimensional representations of data. Inspired by the brain, HD computing encodes data using high-dimensional, low-precision vectors known as hypervectors, which are combined with simple algorithms to carry out information processing tasks. Given that genomic data is represented by long strings of nitrogen bases (A, C, G, T), it is well-suited for translation into hyperdimensional space. These representations can be employed with pattern-matching algorithms to perform genome sequencing. However, the implementation of learning tasks using HD computing necessitates the storage, manipulation, and comparison of high-dimensional vectors, resulting in increased design complexity. In this work, we propose a 3D NAND-based in-memory HD computing system for large-scale genome sequencing. We introduce a complete HD computing system that includes the digital logic for encoding the hypervectors. Compared to conventional methods, the proposed design reduces the system-level energy consumption by >1000× in the case where the data is not offloaded from the solid-state drive to the computing units.

Bio

Po-Kai Hsu is a Ph.D. student in the School of Electrical and Computer Engineering at Georgia Tech. Po-Kai received his B.S. and M.S. from the department of Electrical Engineering at National Tsing Hua University (NTHU). During his master study, he also conducted research in the department of EECS at UC Berkeley as a visiting student. His research interests focus on 1) Genome Sequencing, 2) Ferroelectric Memory, and 3)Heterogeneous Integration. Prior to his Ph.D. study, he worked at Macronix for the research and development substitute service. He was a senior engineer focusing on memory-centric computing applications. His outstanding performance won him the Excellence Awards twice during his service.

Association between spontaneous abortion and ambient air pollution using birth registry data in Georgia, USA: a matched case-control study, 2005-2014

Thomas Hsiao
Emory University

Abstract

A growing body of evidence suggests that ambient air pollution increases the risk of spontaneous abortion (SAB), or pregnancy loss within the first 20 weeks of gestational age. However, previous studies have suffered from left truncation due to underreporting, exposure measurement error, and lack of adjustment for unmeasured spatiotemporal confounders. To advance knowledge on the harmful effects of air pollution on SAB, further estimates of the risk are necessary. We used a birth registry of all reported SABs in Georgia to measure the association between SAB and air pollution for twelve different pollutants across five exposure periods. The study included a total of 47,649 SABs from January 1st, 2005 to December 31st, 2014. Each SAB was linked to four controls matched on maternal residential county and conception month. Air pollution data was generated on a 12km by 12km grid by a random forest approach combining chemical transport model outputs from the Community Multiscale Air Quality Modeling System (CMAQ) fit on observed pollutant data from the Environmental Protection Agency's (EPA) Air Quality System (AQS). A stratified time-varying covariate Cox proportional hazards model was used to model time to SAB. An interquartile range increase was associated with a 12% increase in the hazard of SAB (HR=1.12, 95% CI, 1.04-1.20) for carbon monoxide (CO), 11% increase (HR=1.11, 95% CI, 1.04-1.19) for nitrogen dioxide (NO2), and 3% increase (HR=1.03, 0.98-1.08) for nitrogen oxides (NOx). Our study supports previous findings that traffic-related pollutants like CO, NO2, and NOx are risk factors for SAB in pregnant women throughout the early weeks of pregnancy. Contrary to other studies, we did not find evidence of PM10 and PM2.5 increasing SAB risk. The findings suggest that regulatory policy aimed at reducing ambient air pollution exposure may improve reproductive outcomes and lower SAB incidence in the United States.

Bio

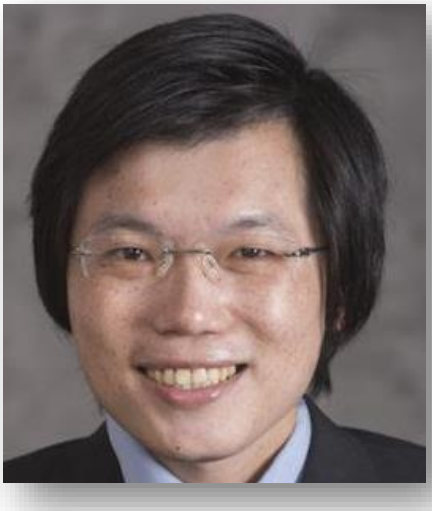
Thomas Hsiao is a 5th year PhD candidate in the Department of Biostatistics and Bioinformatics at Emory University. His dissertation is entitled "Methods for fast spatial inference under preferential sampling" and is advised by Dr. Lance Waller. Prior to his PhD, Thomas graduated with a B.A. in Statistics from Rice University under the guidance of Dr. Rudy Guerra and completed a senior capstone thesis entitled "Crisis intervention: the reproducibility of psychological science" investigating the reasons for the failed replication success of many studies in leading psychology journals. He then joined the Institute for Health Metrics and Evaluation (IHME) as a Post-Bachelor Fellow and key contributor to the Tobacco Estimation and Demographic Forecasting teams, having had several high-profile works published in the Lancet. His research interests include spatio-temporal statistics, computational statistics, and stochastic processes, and hopes to leverage computational techniques to make space-time statistics more accessible to the wider applied scientific community.

Heritage Language Learning for Second- and Third-Generation Taiwanese Americans Promoting Linguistic and Ethnic Equality

Wei-Yi Lee
University of Georgia

Abstract

A heritage language (HL) is an immigrant or indigenous minority language. This presentation examines the heritage language (HL) learning of second and third-generation Taiwanese Americans and its implications for language and ethnic equality. While HL learning is vital for immigrants' self-identity, the relationship between ethnicity and HL is complex for Taiwanese Americans, often categorized as Chinese heritage language learners (CHLLs). Many Taiwanese CHLLs prefer Taiwanese Chinese varieties over Mainland Chinese. Since the 1980s, Taiwanese Americans have distinguished themselves from Chinese Americans despite sharing a Sinitic language group. The study demonstrates the importance of investigating HL acquisition among second and third-generation Taiwanese Americans in the fields of Chinese language education, foreign language education, and Asian American studies. By comparing Taiwanese CHLLs with heritage language learners of non-mainstream varieties (e.g., Spanish HLLs of Mexican ethnicity, French HLLs of Quebec origin), this research reveals unique challenges and opportunities for Taiwanese CHLLs. Moreover, the study deconstructs the Asian American ethnic group, particularly Taiwanese Americans, challenging the use of the umbrella term "Asian American" and questioning educational models based on Chinese American performance. By highlighting the linguistic and ethnic distinctions of 3 Taiwanese CHLLs, this research fosters an understanding of diverse communities within the broader Asian American context. The findings have implications for pedagogical approaches in Chinese and foreign language education and educational models in Asian American studies. Recognizing and valuing linguistic and ethnic diversity within the Taiwanese American community promotes inclusivity and equity. This study contributes to linguistic and ethnic equality, enriching our understanding of heritage language learners among Taiwanese Americans.



Bio

Wei-Yi Lee is PhD candidate in Language and Literacy Education at the University of Georgia (UGA). His academic journey commenced with a BA in English from National Taiwan University, followed by MAs in English Literature from National Chengchi University, Comparative Literature from the University of Colorado at Boulder, and Chinese Literature from Washington University in St. Louis. At UGA, he serves as an instructor of record to teach Chinese language courses at all levels and Asian American Literature. His research interests include Chinese language education, heritage language education, language and ethnicity, language ideology, Chinese diaspora, and Taiwan studies. He is writing a dissertation exploring the interplay between language ideologies and the (re)shaping of ethnic identities for U.S.-Based Chinese Heritage Language Learners of Taiwanese Ancestry. He aims to advocate for ethnic and language equality, highlighting the immense significance of heritage language learners from diverse backgrounds.

The Health Benefits of Ba Duan Jin Exercise in Older Adults

Chu-Yun Chen [1] , Mei-Lan Chen [2] , Douglas S. Gardenhire [1]

[1] Department of Respiratory Therapy, Byrdine F. Lewis College of Nursing and Health Professions, Georgia State University, Atlanta, GA 30303, USA
[2] School of Nursing, Byrdine F. Lewis College of Nursing and Health Professions, Georgia State University, Atlanta, GA 30303, USA

Abstract

People over 65 years old around the world have increased dramatically over the years. As people age, the body's functions start to decline, which leads to various chronic diseases. Therefore, it is crucial to maintain or improve the physical as well as psychological health for older adults. Ba Duan Jin, a traditional Chinese mind-body exercise, is a potential intervention to promote healthy aging. Hence, the purpose of this study was to comprehensively review the effect of Ba Duan Jin on health benefits in diverse older adults. A nonsystematic review was conducted. The Ageline, CINAHL, Cochrane Library, SPORTDiscus, and GALILEO databases were used for literature search. Keywords "Ba Duan Jin", "baduanjin", "ba-duan-jin", "older adults", and "elderly" were utilized. A total of 11 intervention studies were selected. The results showed that the intervention dosage in the 11 studies ranged from 15 to 120 minutes per day, 2 to 5 days per week, and 12 to 24 weeks. The most common intervention dosage was 60 minutes a day, 3 days per week, and 24 weeks in total. For health benefits, Ba Duan Jin has shown to have a positive effect on improving frailty status among old adults with declined physical and psychological function. In addition, Ba Duan Jin can alleviate body pain and reduce high blood pressure. The findings also indicated that Ba Duan Jin can enhance balance, fitness ability, mental health, cognitive function, as well as the quality of sleep. To determine the maximum effect of Ba Duan Jin on health benefits in old adults, future studies should examine the dose-response relationship.

Bio

Chu Yun Chen is a 2nd-year master's student at Georgia State University. She is pursuing a dual master's degree in Thoracic Medicine and Respiratory Therapy at Taipei Medical University and Georgia State University respectively. Her current research topic is the effect of traditional Chinese exercise on the older population.

Panel Discussions: Holistic Care for Healthy Aging

Dr Taian Wang, DAOM. LAc.

Spine center Atlanta, Atlanta, GA , USA

Bio

Dr. Taian Wang is an expert of Traditional Chinese Medicine and received his Master of Science in Acupuncture from the New York College of Traditional Chinese Medicine and a Doctorate Degree in Acupuncture and Oriental Medicine from the Five Branches University of California.

He specializes in patients with neck, shoulder, lower back, and sciatica nerve pain.

Dr. Wang has a decade of experience in rehabilitating patients of Spine Center Atlanta (SCA), focusing on pain management specifically for those who are considering or recovering from

Oliver Tu, MD

Hospitalist, Northside Hospital Gwinnett/Duluth

Bio

Dr. Li-Kun (Oliver) Tu was born in Taiwan and immigrated to the Dominican Republic at the age of 11. He obtained an undergraduate degree in chemical engineering from Cornell University and then a medical degree at St. Louis University. He completed his internal medicine residency and nephrology fellowship at Wake Forest University. He is board certified in internal medicine and nephrology.

Dr. Tu practiced internal medicine for three years and nephrology for 10 years in North Carolina. He served as the chair of the Department of Medicine at Wayne Memorial Hospital and the Medical Director at Davita Mt. Olive Dialysis Center in North Carolina. In 2017, he and his family relocated to metro Atlanta. After joining Georgia Nephrology for about a year, he switched to hospital medicine at Northside Hospital, which allows him a more flexible schedule to travel back to Taiwan often to visit his parents, as his father is now on dialysis.

Dr. Tu resides in Johns Creek with his wife Dr. I-Wen Chang, a hematology and oncology specialist in Duluth. They have two daughters.

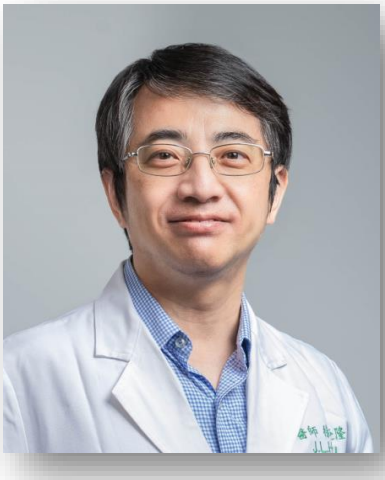
Dr. Chih-Ching Matthew Hsu, MD

Bio

Born on October 23, 1951 during the severe Hua-Lian earthquake in Taiwan, Pastor Hsu immigrated to New York in 1978 and is now 72. Dr. Hsu graduated from Taipei Medical college in 1976, and received complete surgical training in Flushing Hospital and medical center, and is an attending surgeon at Flushing Hospital in Queens, New York. He is also the founding and Senior Pastor of the Union Bible Church (UBC) in Flushing, New York which has 3 daughter churches at present. He also serves as an Associated Pastor at the Bowne Street Community Church in Flushing, New York. Pastor Hsu graduated from the Evangelical Mission Seminary International (EMSI) in August of 2004 and was sent to Cape Town, South Africa to serve as a missionary for one year. In 2006, he served for 3 ½ years at Binghamton Christian Church in Binghamton, New York. Following that, he founded UBC and has served as Senior Pastor from 2012 until the present. He received the degree of Doctor of Divinity in 2019.

Dr. Jung Lung Hsu, Ph.D., MD

Department of Neurology, New Taipei Municipal TuCheng Hospital, Chang Gung Memorial Hospital and Chang Gung University, New Taipei City, Taiwan



Bio

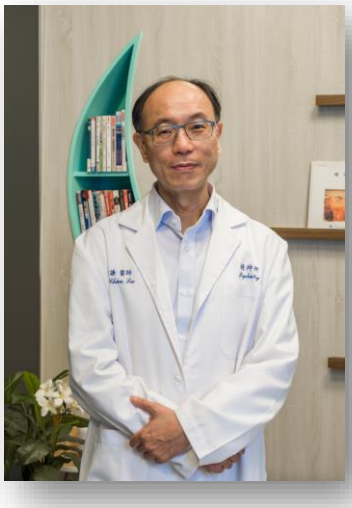
Dr. Jung-Lung Hsu is a neurologist, with a diverse background spanning medicine and medical imaging. He completed his PhD degree from Image Science Institute at Utrecht University, the Netherland and medical engineering at National Taiwan University. Currently serving as a Professor at Taipei Medical University, Professor at Chang Gung Memorial Hospital and director of department of Neurology at New Taipei Municipal TuCheng Hospital, New Taipei City. Dr. Hsu has dedicated over 25 years to advancing the understanding and diagnosis of dementia.

Dr. Jung Lung Hsu is a distinguished neurologist in the medical field with a keen interest in unraveling the phenotype of dementia and utilizing biomarkers to investigate glymphatic activity and pathologic proteins in Alzheimer's disease. His groundbreaking research has garnered recognition in esteemed neurology journals, such as The Annals of Neurology, Neurology, and Scientific Reports. Through his studies, Dr. Hsu has made significant contributions to our understanding of Alzheimer's disease and image biomarkers, shedding light on critical aspects of its pathophysiology.

In his pursuit of enhancing diagnostic accuracy and advancing dementia care, Dr. Hsu actively collaborates with various research groups specializing in neuroinflammation, movement disorders, and neuroimaging, as well as information technologists. This multidisciplinary approach allows him to make meaningful contributions to the field, shaping the future of dementia diagnosis and care. Driven by his passion for precision medicine and personalized treatments, Dr. Hsu's work sets the stage for transformative advancements in the field.

Hsin-Chien Lee, MD, MPH

[1]Associate Professor & Director, Research Center of Sleep Medicine & Department of Psychiatry, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan
[2]Vice Dean, College of Humanities & Social Sciences, Taipei Medical University, Taipei, Taiwan
[3]Visiting Staff & Chair, Department of Psychiatry & Sleep Center, Taipei Medical University Hospital



Bio

Dr. Hsin-Chien Lee is a psychiatrist specializing in sleep medicine. He completed his MD degree in Taipei Medical University at Taipei, Taiwan and got his Master of Public Health (MPH) degree in Columbia University, New York City. Currently serving as an Associate Professor and Director in the department of psychiatry and sleep center at Taipei Medical University Hospital. Dr. Lee has dedicated over 15 years to advancing the diagnosis and management of sleep disorders, insomnia in particular.

Dr. Lee's research interests focus on discovering the impact of sleep disorders on physical health and cognitive function. He also participated in several industry-academic collaboration projects to developing and verifying innovative diagnostic approaches for sleep disorders. He has published 150s research papers in peer reviewed journals in this field, including Sleep, Sleep Medicine Review, Journal of Clinical Sleep Medicine and so on. Dr. Lee has also conducted many clinical trials in pharmacological and non- pharmacological management of chronic insomnia and hopefully find out novel treatment modalities for this prevalent sleep disorder.

Dr. Lee also devoted himself into sleep health education for medical students and the public. His contributions to the field continue to shape the future of sleep medicine, paving the way for advancements in preventive and precision sleep medicine.

Mei-Lan Chen, Ph.D., RN

Assistant Professor, School of Nursing
Byrdine F. Lewis College of Nursing and Health Professions
Georgia State University

Bio

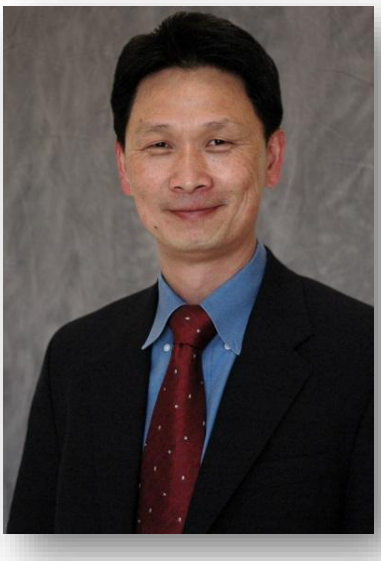
Dr. Mei-Lan Chen is an Assistant Professor in the School of Nursing at Georgia State University. She received her master's degree in nursing from Taipei Medical University with a focus on exercise prescription & exercise training in patients with chronic diseases, and cardiac rehabilitation. Dr. Chen earned her PhD degree in nursing from the University of North Carolina at Greensboro. She was selected as a Retirement Research Foundation (RRF) Scholar for the 2017 RRF Scholars Program. Dr. Chen is recognized by the National Hartford Center of Gerontological Nursing Excellence (NHCGNE) as a Distinguished Educator in Gerontological Nursing. Dr. Chen's focused area of research is on developing and testing exercise programs and lifestyle interventions to promote physical activity and to improve cognitive function and mental health in older adults, particularly older Asian Americans. Her work has been recognized through oral and poster presentations at regional, national, and international conferences and peer-reviewed publications in high impact factor journals. Dr. Chen has been successful in obtaining external and internal research funding. She received a research grant award as Co-Principal Investigator (Co-PI) to examine a remote assessment in Alzheimer Disease through smartphone App funded by New Taipei Municipal TuCheng Hospital, Taiwan. Dr. Chen received the Exercise Medicine, Aging Research Grant (as PI) to test the effects of resistance exercise on cognitive function and mental health in older Chinese Americans funded by Come-Well Clinics Physical Medicine and Rehabilitation, Taiwan. Also, Dr. Chen was the PI on Ruth P. Council Research Grant funded by Gamma Zeta Chapter of Sigma Theta Tau International Honor Society of Nursing. She also received the Retirement Research Foundation Fellowship Award.

Panel Discussions: Early Career Scholar Mentorship Session

Wun-Ju Shieh, MD, MPH, PhD, DrPH (h.c.); FIDSA, FASCP, FRSM

Dr. Wun-Ju Shieh retired from the Infectious Diseases Pathology Branch, Centers for Disease Control and Prevention (CDC) as the Deputy Branch Chief in July 2020 after 25 years of service. He is now appointed as a Visiting Professor at Department of Microbiology and Immunology, Taipei Medical University and recently joined the 2022-2024 roster of American Society for Microbiology Distinguished Lecturer (ASMDL) program. Dr. Shieh graduated from Taipei Medical University in 1979. After completion of internal medicine residency and infectious disease subspecialty training in 1986, he moved to the U.S. to continue his pursuit of professional career. He received a Master of Public Health from Harvard School of Public Health in 1987 and a Ph.D. in Microbiology & Immunology from Vanderbilt School of Medicine in 1992. Afterwards, he completed a combined anatomic and clinical pathology residency training at Vanderbilt University Medical Center and an infectious disease pathology fellowship at CDC. He participated many outbreak investigations during his tenure at CDC, including the 1995 Ebola in Zaire, 1998 EV71 in Taiwan, 1999 Nipah virus in Malaysia, 1999 West Nile virus in USA, 2001 anthrax in USA, 2003 SARS in Vietnam and Taiwan, 2003 monkeypox in USA, 2009 pandemic H1N1 influenza, and 2020 COVID-19 pandemic, etc. He has authored or co-authored more than 200 scientific articles and 12 book chapters. He has delivered more than 270 talks at international, national, regional meetings, workshops, and various institutes in the past thirty years.

Dr. Yichang (James) Tsai, Ph.D.



Dr. Yichang (James) Tsai is a professor in the School of Civil and Environmental Engineering and also an adjunct professor in the School of Electrical and Computer Engineering (CEE) at Georgia Tech. He is currently the group leader of Construction and Infrastructure Systems Engineering (CISE) in CEE at Georgia Tech. He is also the founding director of the “Center of Safe Mobility for Aging Population”, competitively selected for funding by Georgia Tech Seed Grant – Building Teams and Moving Teams Forward. Dr. Tsai received his Ph.D. (1996) and MS (1994) from Georgia Tech. Dr. Tsai’s research focuses on applying sensing technologies (3D laser, Lidar and smart phone technologies), computer vision, AI, and GIS spatial analysis to 1) automated pavement condition evaluation and asset management, 2) transportation safety, 3) vehicle energy-emission reduction and 4) safe mobility of aging population. Dr. Tsai is a worldwide leader in the development and implementation of automated pavement distress detection and diagnosis (e.g., cracking, rutting, pothole, raveling, etc.), using 3D laser technology with computer vision and machine learning. Dr. Tsai’s leadership has great national impact as evidenced by his development of an open-

format 2D/3D Pavement Surface Image (.PSI) that has become the US national standard. Dr. Tsai has served on the technical committee of the United States National Cooperative Highway Research Program (NCHRP) 20-102 (06) Road Markings for Machine Vision, and NCHRP 20-102 (28)) “Prepared for Transportation Agencies in Workzones for Autonomous and Connected Vehicles”, two of 34 connected and automated vehicles research projects sponsored by the USDOT. Since 2010, he has served as the Associate Editor of the ASCE Journal of Computing in Civil Engineering.

Dr. Chin-Tser Huang, Ph.D.

Dr. Chin-Tser Huang is a Professor in the Department of Computer Science and Engineering at University of South Carolina at Columbia. He received the B.S. degree in Computer Science and Information Engineering from National Taiwan University, Taipei, Taiwan, in 1993, and the M.S. and Ph.D. degrees in Computer Sciences from The University of Texas at Austin in 1998 and 2003, respectively. His research interests include network security, network protocol design and verification, and distributed systems. He is the director of the Secure Protocol Implementation and Development (SPID) Laboratory at the University of South Carolina. He is the author (along with Mohamed Gouda) of the book “Hop Integrity in the Internet,” published by Springer in 2005. His research has been funded by DARPA, AFOSR, AFRL, NSF, NEH, and USDOT. He is an NRC Research Associate in 2020, and a recipient of the USAF Summer Faculty Fellowship Award and of the AFRL Visiting Faculty Research Program Award in 2008-2022. He is a Senior Member of IEEE and ACM.

Dr. ChuChu Wu, Ph.D.

Dr. ChuChu Wu is a professor of Elmentary Education in the College of Education at Georgia Southwestern State University (GSW) where she has worked for 18 years. Dr. Wu earned her Ph.D. degree from the Department of Family and Child Studies at Syracuse University with specializations in Child Development and Early Childhood Education. She earned her Master’s Degree from the Department of Human Development and Family Studies at Iowa State University. She graduated with a degree in English Literature and Foreign Language from Fu-Jen Catholic University in Taiwan. Dr. Wu’s research interests are emergent literacy and parent-child storybook reading. She has published many articles about parent-child storybook reading. Her current research interests are early numeracy development and mathematics methods for elementary education.

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- To recruit overseas experts
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- To collect S&T policy& information
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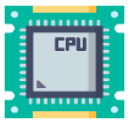

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- International Internship Pilot Program(IIIP) NEW

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Website: https://www.nstc.gov.tw/dc/ch
Email: dc01@nstc.gov.tw

What is the Employment Gold Card?

Launched in 2018, the Taiwan Employment Gold Card is a 4-in-1 card that includes a Work Permit, Resident Visa, Alien Resident Certificate (ARC), and Re-entry Permit. The Gold Card is valid for 1 to 3 years, and allows the cardholders to freely work and reside in Taiwan.

Applicants can apply online without sponsorship.

FOUR-IN-ONE

01 WORK PERMIT
Allows cardholders to legally seek employment, work full-time or part-time, or start their own business.

02 RESIDENT VISA
Long-term visa that allows cardholders to stay in Taiwan for more than 180 days.

03 ALIEN RESIDENT CERTIFICATION
A physical identification card used in daily life to verify resident status.

04 RE-ENTRY PERMIT
Allows cardholders to freely enter and leave Taiwan without limitation as long as the card is valid.

APPLICATION FEES

The application fee can range anywhere between NTD$800-NTD$8,460, depending on various factors and the applicant's background. Please visit the official Gold Card website for more details.

The Taiwan Employment Gold Card Office operates a bilingual Help Desk for applicants and current cardholders. If you have any questions, concerns, or suggestions, please don't hesitate to contact us.

OFFICIAL WEBSITE
https://goldcard.nat.gov.tw

LINKEDIN
https://www.linkedin.com/company/taiwangoldcard/

EMAIL
help@taiwangoldcard.tw

HELP DESK
+886 2-7733-7660
*Service Hours (GMT+8) 10:00-12:00; 14:00-18:00

TGC TAIWAN EMPLOYMENT GOLD CARD

Introduction to the
Taiwan Employment Gold Card

國家發展委員會 National Development Council

TGC Website | TGC LinkedIn

Date printed: March 2022

Qualification Quick Check

Please visit goldcard.nat.gov.tw for more details on how to qualify

Economy
- Most recent monthly salary of at least NTD160,000
- Operations, technical, or marketing executive
- Possessing professional technical capabilities related to key industry products
- Specialized in semiconductors, ICT, biotechnology/ medical materials. precision machinery, etc.
- 8 years of work experience in cultural and creative sectors

Science & Tech
- Most recent monthly salary of at least NTD160,000
- Outstanding R&D ability in cutting-edge technologies
- Nobel laureates, Tang Prize recipients, Wolf Prize recipients, Fields Medal recipients, etc.
- Senior Executive or Core R&D personnel that has led an overseas startup company to IPO
- Senior executive of a venture capital firm or fund who has investment performance in an overseas startup company

Architecture
- Licensed R.O.C architect with a most recent monthly salary of at least NTD160,000
- Licensed foreign architect with a most recent monthly salary of at least NTD160,000

Sport
- National team athlete or coach with notable results at the Olympics, Asian Games, or World Games
- Official or referee of the Olympic Games, Asian Games, or World Games
- As recommended by a qualified sports organization or a competent authority, and with the potential to contribute to the country's sports industry

National Defense
- 5 years of experience in machinery, electrical engineering, project management, or R&D associated with the defense aerospace industry
- 5 years experience in design, construction supervision, development construction, or project management of shiborne weaponry and platforms

Education
- PhD graduates from one of the top 500 universities
- Engaged in full-time teaching or research at one of the top 500 universities for at least 3 years in the last 5 years
- Leading international scholar who has received funding support under the Yushan Fellow Program
- Currently employed as a teacher, researcher, or provided educational administration services for at least 5 years with a most recent monthly salary of at least NTD160,000

Culture and Arts
- Performing Arts or Visual Arts
- Publishing
- Film, Broadcast, and Pop Music
- Handicraft
- Cultural Administration
- Experience in "new" cultural industries

Finance
- Most recent monthly salary of at least NTD160,000
- Senior executives of financial institutions
- Financial professional needed by the government to promote key industries
- Served in a professional position in financial institutions

Law
- Licensed R.O.C attorney or foreign legal affairs attorney with a most recent monthly salary of at least NT$160,000
- Previously or currently holding a position as a chair professor at a foreign university or as a research fellow at a foreign research institute, while also being a licensed R.O.C attorney or foreign legal affairs attorney

Special Case Review by NDC
If the applicant cannot be placed in a qualifying Field as a result of consultation, but does meet the conditions for recognition as possessing special expertise, then their application may be submitted for Special Case Review.

Benefits in Summary

1. Work for any employer (including remote companies) or start your own business in Taiwan.
2. Gold Card holders who work in Taiwan for the first time are eligible for a 50% tax deduction on their salary income over NT$3 million in the first 5 years.
3. Employees, employers, self-employed owners, and their dependents that reside in Taiwan can directly enroll in National Health Insurance.
4. Spouses and children can apply for ARCs, while parents and grandparents can apply for Visitor Visas for up to 1 year.
5. Those who have resided in Taiwan for 3 consecutive years and meet certain qualifications are eligible to apply for Permanent Residency. Obtaining a Doctorate Degree in the R.O.C counts towards 1 of the 3 years that is needed.

How to Apply

To apply for an Employment Gold Card, please visit the online application platform, fill in your personal information, upload relevant documents, and pay the application fee. Please carefully review the application criteria, required documents, and follow the steps to complete the application process.

1. ONLINE APPLICATION
1. REGISTRATION
2. FILL IN INFORMATION
3. UPLOAD DOCUMENTS
4. PAYMENT & E-MAIL CONFIRMATION

2. QUALIFICATION REVIEW
- INFORMATION CHECK — NIA, MINISTRY OF INTERIOR
- QUALIFICATION CHECK — WDA, MINISTRY OF LABOR & RELEVANT MINISTRIES

During this stage, the applicant may need to submit additional documents, resubmit their application, or their application may be rejected.

3. IDENTITY VERIFICATION
- PASSPORT INSPECTION — TAIPEI ECONOMIC & CULTURAL OFFICE
- SECONDARY REVIEW — NIA, MINISTRY OF INTERIOR

Passport Inspection is required for all overseas applicants (except for Hong Kong/Macao residents).

4. PICK UP GOLD CARD
Please bring the following to your chosen National Immigration Service Station to pick up your Gold Card:
1. ORIGINAL PASSPORT
2. APPLICATION RECEIPT
3. OTHER RELEVANT DOCUMENTS (I.E. RESIDENT AUTHORIZATION CERTIFICATE FOR OVERSEAS APPLICANTS)

Apply at the Foreign Professionals Online Application Platform
https://coa.immigration.gov.tw/coa-frontend/four-in-one/entry/

Required Documents

1. Color copy of your passport with at least 6-month validity remaining.
2. 2-inch color passport/identification photo, taken within six months. Please check the specification on the application form.
3. Supporting documents corresponding to the requirements of the regulation under which you are applying.
4. Your previous Taiwanese visa and residence permit (if necessary).

With all the correct documentation submitted, it can take over 30 to 60 business days to complete the entire Employment Gold Card application process. If you are applying from Taiwan, please make sure that you have enough time remaining on your existing visa. If not, you may need to leave and re-enter the country, even if you are currently applying for a Gold Card.

About CAPASUS

The Chinese-American Academic and Professional Association in Southeastern United States (CAPASUS) is a non-profit organization, established on June 25, 1977, in Atlanta, Georgia. The objectives of CAPASUS are:

- to provide opportunities for all members to exchange their academic, cultural, social, professional, and business knowledge and experiences, and
- to make academic, cultural, social, professional, and business contributions to the societies of the United States and the Republic of China.

CAPASUS covers eight of the southeastern region States of the US, including Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee. Our members range from current or retired academics, medical doctors, licensed professionals, and graduate students.

The annual conference held in the summer in Atlanta or other southeastern US cities is the principal event of CAPASUS. In the past 41 years, CAPASUS annual conference themes have centered on Science, Technology, Business, and Engineering. It has created opportunities to bring the Chinese American Communities in the Southeastern region to network and exchange knowledge in diverse fields. Presentations at the annual conferences are well received and highly regarded by the Chinese-American community professionals.

CAPASUS
美國東南區中華學人協會

Brief History of CAPASUS

美東南區中華學人協會簡史

1977	會長: 孟憲章	副會長: 朱剛	執行秘書:何達威
第一屆大會一九七七年六月於亞特蘭大。 本會於一九七七年六月二十五日在亞特蘭大成立。成立大會時，青輔會主任委員潘振球先生，駐美大使館代辦趙仰雄博士，駐亞特蘭大總領事陳錫蕃員先生 等均列席祝賀。參加的會員均為歷年回國參加國建會的成員，所以當時可以說是一國建會聯誼會的組織。			
1977 ~ 1978	會長: 孟憲章	副會長: 陳博中	秘書:何達威
第二屆大會：一九七八年八月於佛羅里達。 在佛羅里達州迪斯尼樂園附近舉行年會。			
1978 ~ 1979	會長: 孟憲章	副會長: 陳博中	秘書:何達威
第三屆大會：一九七九年八月於亞特蘭大。 北美事務協調委員會駐美代表夏功權先生應邀蒞會演講。			
1979 ~ 1980	會長: 劉奕銑	副會長: 徐孝華	
第四屆大會：一九八〇年八月於南卡州查爾斯頓。 大會邀請衛生署長王金茂先生及環境衛生處長莊進源先生主持公共衛生、醫療作業與環境衛生討論會。			
1980 ~ 1981	會長: 劉奕銑	副會長: 徐孝華	
第五屆大會：一九八一年六月於喬州塔可亞市。 協會在喬治亞浸信會堂 (Georgia Baptist Assembly, Toccoa, GA) 舉行年會。 經濟部長張光世蒞會講「中華民國的經濟發展」。			
1981 ~ 1982	會長: 徐孝華	副會長: 錢興格	
第六屆大會：一九八二年六月於亞特蘭大。 1. 貴賓中有由國內來的經建會王章清副主任，青輔會劉勝次主任；由華府來的毛 先榮主任，徐定成組長；本地則有沈仁標處長及由休士頓來的中央社洪建召先 生。 2. 開始定期出版「會務簡訊」(兩年共出版八期)。 3. 整理會員名冊。到 1982 年四月已有四十三位填表及繳納會費，此乃為本會第一份正式會員名冊。			

4. 根據本會章程，開始徵邀未參加過國建會之學者加入，也從此奠定協會日後成 長茁壯的根基。 5. 會務討論中的一項重要決定是以全體大會名義，致函美國總統、副總統、國務卿、國防部長及參眾兩院議員，籲請繼續供應中華民國武器，加強防禦復興基地。寄出致各方信函共 539 封，收到回信數十封，均表示支持本會立場。		
1982 ~ 1983	會長: 徐孝華	副會長: 錢興格
第七屆大會：一九八三年七月於亞特蘭大。 1. 貴賓出席者有國民黨中央黨部陳永逢副秘書長、文參處毛先榮組長、新任亞特 蘭大辦事處林尊賢處長、及吳健雄教授。 2. 本協會首次舉行大型對外公開演講。會中特別請到吳健雄教授發表專題演講。 由於吳教授的成就及名望，與會聽演講的人數超越二百多人，可謂盛況空前。		
1983 ~ 1985	會長: 錢興格(連任)	副會長: 賴森榮(連任)
第八屆一九八四年六月於亞特蘭大、第九屆一九八五年六月大會於亞特蘭大。		
1985 ~ 1987	會長: 賴森榮	副會長: 王尚釗、鄭治明(連任)
第十屆一九八六年六月於亞特蘭大、第十一屆一九八七年六月大會於亞特蘭大。 由國內來參加年會的貴賓有陳履安部長 (時任職國科會)，及駐美台北經文處代表錢復先生 (1986)。		
1987 ~ 1988	會長: 王尚釗	副會長: 許渝生、施敏男
第十二屆大會: 一九八八年六月於北卡州洛麗市。 1. 第十二屆年會是本會自成立以來，第一次在北卡地區召開的大規模年會。 2. 本會第一次把年會開會期間發表的文章裝訂成冊，印發給參加年會的會員。 3. 本年年會也是第一次請了從中國大陸來美的民主人士參加。		
1988 ~ 1989	會長: 王尚釗	副會長: 趙家珍、施敏男
第十三屆大會：一九八九年六月於亞特蘭大。 1. 第十三屆年會裡，蔣彥士博士帶了「台灣的土地改革」近百冊在開會時分發給會 友，做專題演講，使會員們更深入地瞭解台灣土地改革的歷程和影響，而且全程 參與各個演講會，了解實況。 2. 為了追念「六四事件」被殺害的學生和年輕人，大會開始時全體會員及來賓起立 默念五分鐘以為懷念默悼。		
1989 ~ 1990	會長: 許渝生	副會長: 趙家珍、施敏男
第十四屆大會：一九九〇年六月於亞特蘭大。		

六月三日本協會與亞城民主運動支援會在亞城市中心 Woodruff Park 主辦六四周年燭光紀念會，超過千人與會。

1990 ~ 1991	會長: 許渝生	副會長: 趙家珍

第十五屆大會：一九九一年六月於佛州奧蘭多市。

1. 一九九一年四月，本協會之憲章與 By-Laws 正式通過啟用。
2. 從一九九〇年八月起，本協會為僑社之健康問題，特舉辦每月一次的醫學講座。 連續近兩年的講座在亞城僑教中心舉行，甚獲好評。
3. 一九九一年年會起年刊啟用王楓教授設計之封面。協會的徽章亦起用王楓教授的設計。

1991 ~ 1992	會長: 施敏男	副會長: 何智達	秘書: 孫智燊

第十六屆大會：一九九二年六月於亞特蘭大。

1. 改變會長選立程序：年會中選舉副會長，原副會長自動升任會長。進一步設立各 州代表並且恢復秘書一職，讓多人分擔會長的負擔和壓力，又可擴大未來副會 長接班人選群。「玉山協會」成立時延用相同組織架構。
2. 籌組顧問公司：為配合「國家建設六年計劃」，本會積極籌組「顧問公司」，提供國內所需專業知識服務，暫由台灣地區為主，逐漸發展，及于大陸。
3. 積極募捐：施會長雖是化工博士，出身麻省理工，卻是理財高手。任內除必要開支外，尚有盈餘美金二萬多元，留交下屆會務使用。
4. 協助回國創業貢獻：當時台灣境內交通工程，環保工程，財經發展，在在需才孔急。本會會友，各據專長，踴躍貢獻者，絡繹于途。例如：向亨台博士回國創業，於 新竹科學園區成立光纖製造公司；賴森榮教授擔任台灣第二條高速公路建設顧 問；錢興格教授兼任台灣環保顧問；吳越先生為台塑化纖配電及輸電。
5. 支援「玉山」計劃：培育東南七州華裔新秀，領域遍及工藝、科技、財經、企管等， 由研究生至碩士，都在培育之列。「玉山協會」堪稱本會的青春版。
6. 創辦《思源》會刊：由祕書孫智燊擔任首任主編。孫智燊以「飲水思源」為義，提議 會刊取名為「思源」，進一步期許協會成為新思想、新概念的源頭。

1992 ~ 1993	會長: 何智達	副會長: 宋鴻樟	秘書: 楊乃莊

第十七屆大會：一九九三年六月於亞特蘭大。

1. 何智達會長為了發展會務，曾經返臺兩次，主要目的有三：(一).晉見臺灣重量級人物，讓外界更加知悉本會擁有一流的人才；(二).尋找年會主講人，並能帶來財務贊助；(三).與青輔會建立良好管道，爭取最高的補助費。
2. 不少密西西比州的優秀人才陸續加入本會，經開會協商後，將密西西比州正式併入「版圖」，本學會版圖因此由原來的七州變為八州。
3. 安排週日早上開座談會並開放給僑界民眾聽講，為我會首次在星期日安排節目，延用至今。

1993 ~ 1994	會長: 宋鴻樟	副會長: 楊乃莊	秘書: 莊建雄
第十八屆大會：一九九四年六月於亞特蘭大。 本次年會兼辦了全球海外學會聯席會議，因此會期也由過去的兩天增加到四 天。為了籌辦這個聯席會，我們結合了佛州中華學人協會、美東南區玉山科技協會、及駐亞特蘭大台北經濟文化辦事處共同籌劃。實際的聯絡工作由本會處理， 聯絡海外九十個學會，總計有 84 個學會(90%)參加，盛況空前。			
1994 ~ 1995	會長: 楊乃莊	副會長: 殷清峰	秘書: 蔡山慶
第十九屆大會：一九九五年六月於亞特蘭大。 1. 成立長程企劃委員會，聘康薇博士為主席。此外又為邀請講員及募款之目的，設立年會專題講座，成為那年年會的特色。 2. 當一九九五年元月份美國東南區中華學人協會簡訊推出之後，蒙前會長施敏男來信，謂協會簡訊內容實已超過「簡訊」二字所能包容，並建議更名為「思源」以 作為本會之會刊。於是《思源》第一卷第一期乃於一九九五年五月十二日出刊。 3. 在兩次年會之間增加舉辦一次活動，如此不但可以增加本會對僑社之貢獻及影 響，同時增加本會英傑展現長才之機會。於是「國事鄉情座談會」得以在一九九五年二月二十一日於亞特蘭大華僑文教服務中心舉行。			
1995 ~ 1996	會長: 殷清峰	副會長: 蔡山慶	秘書: 康葳
第二十屆大會：一九九六年八月於亞特蘭大。 1. 本會會員年有增加，一九九六年已超過三百人，遍佈於美東南區八州，由 289 人增加到 310 人，其中喬治亞新增七人，北卡也新增七人。 2. 論文發表會上，本年度會員踴躍投稿，共有二十一篇，分成下列四組：人文組有六篇論文，財經組有四篇論文，醫藥組提出五篇報告，科技組也有六篇論文。			
1996 ~ 1997	會長: 蔡山慶	副會長: 康葳	秘書: 黃耀文
第二十一屆大會：一九九七年六月於亞特蘭大。 1. 會員大會特別熱鬧又周延，因為北美洲台灣商會聯合總會也同時在亞特蘭大舉 行年會，使得兩個年會會場上冠蓋雲集，很多華府及台灣的黨、政官員前來本市參加這兩個年會的活動。該年會中我們在 Outreach 領域上獲得豐富的收穫。會長於一九九六年六月中旬赴台參加「一九九七年海外華人學會會長聯席會議」。			
1997 ~ 1998	會長: 康葳	副會長: 廖廣信	秘書: 黃耀文
第二十二屆大會：一九九八年七月於亞特蘭大。 1. 舉行南北卡區域性座談會。 2. 會長於五月間應邀返臺參加海外華人會長聯誼會，為期四天。			

3. 聯絡文建會安排台北「漢霖說唱藝術團」精彩演出二場：週六開放僑胞欣賞。			
1998 ~ 1999	會長: 廖廣信	副會長: 黃耀文	秘書: 陳開堯
第二十三屆大會：一九九九年七月於亞特蘭大。 1. 登記美東南區中華學人協會網址 www.capasus.org，並設計網頁，提供資訊。 2. 建立會員資料庫及個人檔案，改進會員登記及通訊錄作業。 3. 推廣電子郵件通訊，取代部分傳真及傳統郵件。			
1999 ~ 2000	會長: 黃耀文	副會長: 任紀新	秘書: 林憲明
第二十四屆大會：2000 年八月於亞特蘭大。 1. 與前會長何智達商計設立「贊助會員」榮譽榜，鼓勵內外雙向開源，分列鑽石，金牌，銀牌，銅牌榮譽榜，反應良好。 2. 強化州代表功能作橫向聯繫，會務通訊登錄區間會員動態，增進聯誼。 3. 首創年會青少年活動節目假僑教中心舉行，由江明億夫婦主持，報名熱烈。 4. 邀請台北市長馬英九前來年會。使會員及僑胞有機會第一手聽取他的從政理念與治市經驗，以及他如何將台北市打造成世界級城市的方針。 5. 增設大學博士侯選人論文發表，並開放年會論文發表會與時事座談會給大學學生與僑界人士自由參加，盛況空前。			
2000 ~ 2001	會長: 任紀新	副會長: 蘇昭山	秘書: 王祥瑞
第二十五屆大會：二〇〇一年七月於亞特蘭大。 1. 擴大二十五周年紀念 特別邀請歷任會長發表感言。 2. 尤思治於僑教中心舉辦青少年活動。 3. 年會主題 :「新世紀 新希望」。			
2001 ~ 2002	會長: 蘇昭山	副會長: 王祥瑞	秘書: 祝國忠
第二十六屆大會：2002 年七月於北卡州夏洛市。 1. 本會與亞特蘭大亞特蘭大辦事處合辦台灣縣市長暨第五屆立委選後座談會。 2. 協助推動北卡州州議院通過「支持台灣加入 WHO」決議案。 3. 在楊志成主編的努力下，使思源的內容更多元化。			
2002 ~ 2003	會長: 王祥瑞	副會長: 洪枝成	秘書: 陳新助

第二十七屆大會：2003 年七月於亞特蘭大。

1. 舉辦北卡區域性學人協會學術研討會，是一次非常成功的學術交流和國民外交活動。

2. 向青輔會專案申請補助，於年會期間舉辦「青年、婦女及工作經驗座談會」。

2003 ~ 2004	會長: 洪枝成	副會長: 謝復生	秘書: 黃麗勳

第二十八屆大會：2004 年七月於亞特蘭大。

1. 年會專題演講：(a) An Overview of the National Research Program on Nanotechnology in Taiwan，speaker—Mao-Kuen Wu（主講者-吳茂昆）; (b) 我國參與國際組織之目標與作法以聯合國體系為例，speaker—Li-Yan Hsia（主講者-夏立言）。

2. 年會時事座談會：我國參與國際組織之目標與作法，海峽兩岸關係，美國政府對中國大陸與台灣的現行政策和未來走向等議題。

3. 王前會長尚釗幫忙成立一個募款委員會。

2004 ~ 2005	會長: 謝復生	副會長: 黃麗勳	秘書: 黃金澤

第二十九屆大會：2005 年六月於亞特蘭大。

1. 成立募款委員會，期能對協會長期之財務，有所助益。

2. 透過郵遞方式，進行會員調查，整理會員名錄。

3. 協助北卡分會於三月廿六日，舉辦研討會。

4. 年會主題：「兩岸經貿關係」，探討兩岸經貿對台灣、大陸及週邊國家的影響。前會員也是台灣成功企業家，蘇揚企業總經理潘文輝應前會長王尚釗之邀與會主講，並慷慨捐贈五千美元。

2005 ~ 2006	會長: 黃麗勳	副會長: 洪金城	秘書: 尤思治

第三十屆大會：2006 年七月於亞特蘭大。

1. 由前會長王尚釗和洪枝成的提議，舉辦兩項募款賑災活動以協助 Hurricane Katrina 受災民眾。2. 出版三十週年特刊，由歷任會長和幹部集體合作完成，並由多位榮譽會員贈賀勉辭。此特刊記錄三十年來協會的啟承和轉變，具有歷史性的紀念意義。

3. 舉辦紀念文物特展，展示歷屆協會的文件如簡訊、思源、照片等。此特展具有回顧協會歷史的價值。

4. 恢復辦理會前的旅遊活動以參觀喬州水族館和 Atlantic Station 為主。特別舉辦的節目是星期六的午餐演講，著重演講者的智慧與經驗分享。

5. 年會主題：「根源台灣，放眼世界」。

2006 ~ 2007	會長: 洪金城	副會長: 洪延康	秘書: 陳新助

第三十一屆大會：2007 年七月於亞特蘭大。

1. 多次協助辦理亞特蘭大地區僑界活動，讓許多人對本會有了進一步的認識，本協會對於地方僑團的貢獻，以及名聲與地位受到更多的認同與肯定。
2. 由會員李家賢設計的協會全新三葉標誌獲得票選通過成為我會的新形象代表。
3. 多方努力讓年會的藝文組內容更加多元和有趣味。
4. 為思源雜誌換上全新面貌並賦予豐富、優美、多彩的內容。

2007 ~ 2008	會長: 洪延康	副會長: 王和清	秘書: 張宗仁

第三十二屆大會：2008 年七月於亞特蘭大。
1. 為促進學人協會的永續發展，由會務發展委員會及會員資格審查委員會更新了會員資格要求及會員申請表。
2. 成立活動組以協助協會積極參與社區服務活動。
3. 由副會長王和清籌畫安排，2008 年 1 月 18 日至 20 日在 Huntsville 舉行阿拉巴馬州學人協會區域聯誼會。有 15 篇論文發表並出版了論文集。有四十多位會員、眷屬和貴賓參加。會後並參觀了 Space Museum 和 Jack Daniel 酒廠。
4. 2008 年 4 月 19 日由謝復生及黎建彬兩位會員主講，為僑界舉辦了一場「台灣選後政局與美中關係」的座談會。
5. 年會主題：「保健及養生」。為年會成功的申請到國科會補助在年會時舉辦「台美保健食品和健康生活之創新和契機研討會」。有 21 篇報告和論文發表並出版了論文集。

2008 ~ 2009	會長: 王和清	副會長: 陳英偉	秘書: 鄭義為

第三十三屆大會：2009 年七月於亞特蘭大。
1. 由活動組組長尤思治帶領會員們積極參加及支持僑社各項活動 。
2. 年會主題：「環保與再生」。為年會成功的申請到國科會補助及三位由台灣來的講員的專案補助在年會時舉辦「台美環保與再生學術研討會」。
3. 邀請到 2007 年諾貝爾和平獎得獎人之一的郝慰民博士和台灣國立海洋大學前校長鄭森雄博士為年會環保專題主講人。
4. 由洪金城前會長和夫人鄭秀遠、活動組組長尤思治和夫人何少白等人籌辦年會前晚精彩的歡迎晚會。
5. 由何智達前會長負責募款及廣告，年度節餘二仟多元。

2009 ~ 2010	會長: 陳英偉	副會長: 鄭義為	秘書: 邱耀輝

第三十四屆大會：2010 年七月於亞特蘭大。
1. 成立中華學人基金會（501-(c)(3) 非營利組織）以指導、獎助、及培育下一代的年 輕華人從事專業學術研究工作。
2. 舉辦多元化並開放僑界參與的活動，包括以人文、藝術、經濟、醫學、法律、科技 為主題的座談會和社區義診以擴大協會對社區的服務。

3. 為加強塑造協會更具現代感的形象而創定會歌(徐孝華)、會旗(劉孟周,李家賢)、 思源雜誌英文名(鄭義為)、會服、會帽，及 Brochure 設計（幹部集體）。
4. 年會主題：「奈米科技」。為年會再度成功的申請到國科會補助但仍積極多方募 款在年會時舉辦「台美奈米科技研討會」。
5. 年會晚會籌辦新鮮有趣，強調多元文化的紅白兩隊才藝表演。

2010 ~ 2011	會長: 鄭義為	副會長: 邱耀輝	秘書: 謝國昱

第三十五屆大會：2011 年七月於亞特蘭大。
1. 向國稅局(IRS)申請將中華學人協會正式成為 501-(c)(4) 非營利組織,以因應美 國稅法的變革。
2. 2010 年 12 月 4 日由北卡州代表趙家珍主持，邀請謝復生，李偉欽及黎建彬三 位會員主講，在北卡洛麗市舉辦了一場「台灣五都市長選舉結果之影響」的座談 會。
3. 年會主題：「經財百年，盡在中華」。申請到國科會專案補助舉辦「ECFA 後兩岸經貿關係」研討會。非常榮幸地能夠邀請到中央研究院院士麥朝成教授與會並以「東亞區域整合與台灣經濟發展遠景」做專題報告。

2011 ~ 2012	會長: 邱耀輝	副會長: 黃火金	秘書: 謝國昱

第三十六屆大會：2012 年七月於亞特蘭大。
1. 首次舉行會員 Reunion (在亞特蘭大華僑文教服務中心)，許多第一屆會員及幹 部如副會長朱剛、執行秘書何達威，會員錢興格、徐孝華、許渝生、賴森榮都來參加。
2. 與亞特蘭大棋橋社聯合舉辦第一屆「中華學人盃」橋牌比賽。
3. 年會暨學術研討會主題：「綠色能源及節能環保」，邀請到美國產、官、學界，包括 喬治亞州環保署、美國國家科學院科學院士、美國大學教授、太陽能光電公司專 家、綠能建築(LEED)專家、醫學博士、醫師等講員，與大家分享學術知識和經驗。 七月二十九日之醫學講座講題包括：心血管疾病之預防與治療、糖尿病之預防 與治療、陰陽五行與中醫，開放給僑胞免費參加。有感於每年年會參加之會員人 數遞減，為提升會員之年會參加率，會長邱耀輝向國科會及工商界機募集到許 多籌備經費，目標以減少會員之經濟負擔及提供年會多樣性的活動內容為主，所有參加年會之會員均免繳出席費及所有餐費，外州會員並獲部份旅館費及汽油費補助，今年參加年會之人數有明顯增加。年會時提倡飲水思源、承先啟後， 並頒發 30 年以上之創會「思源獎」、其他周年獎(25, 20, 15, 10, 與 5 周年)及頒發永久會員卡。

2012 ~ 2013	會長: 黃火金	副會長: 侯書逸	秘書: 何婉麗

第三十七屆大會：2013 年七月於亞特蘭大。
1. 與美東南區玉山科技協會合辦「電腦維修及除毒」服務（10/15/2012)。
2.「信仰與人生」講座(1/5/2013)。
3. 與其他亞特蘭大社團合辦「藝文雅聚」(3/3/2013) 。
4. 與中華總會合辦「暗戀桃花源」話劇(4/27/2013)。

5. 於北卡 Asheville 舉辦「第一屆美東南區中華青年學術研討會」 (3/29-31/2013)。
6. 舉辦年會暨學術研討會，主題為歷史與科技(7/26-28/2013)。

2013 ~ 2014	會長: 侯書逸	副會長: 黃金澤	秘書: 何婉麗

第三十八屆大會：二〇一四年八月於亞特蘭大。
1.「科技創新座談」(與美東南區玉山科技協會合辦)，免費提供新知及經驗交流給僑社界 （ 11/23/2013)。
2. 首屆「CAPASUS 會員感恩聯歡晚會 」，增進會員感情聯繫（ 11/24/2013)；經文 處戴處長讚許 CAPASUS 是年輕的社團，有不少新血參與加入！
3.「CAPASUS 春季健康講座」 (3/16/2014) （ 與亞特蘭大華僑文教中心合辦)，由 周禮牙醫師談人工植牙，王泰安中醫師談過敏性鼻炎。
4. 與各大僑社（亞特蘭大台灣商會、美東南區玉山科技協會、亞特蘭大中華總會、 北卡州台灣商會、亞特蘭大台北經濟文化辦事處）合辦 「支持台灣加入跨太平 洋夥伴協定（TPP）研討會」(4/26/2014)。
5. 積極促進協會與新生代接軌及加強協會透過 網路及行動媒體的交流互動：(1 ）新增學生代表於協會幹部工作團隊；(2 ）表決同意協會提供經費支持未來聯 合臺灣同學會的活動（如 TSA 聯合運動會)，以利鼓勵下一代年輕學者認識並加入協會；(3 ）增設年會 Young Scholar Concurrent Session 鼓勵學生及年輕學 者參與；(4 ）成立 Young CAPASUS 臉書族群；及（ 5 ）成立 CAPASUS Line Group 行動族群，促進平時即時互動。
6. 修改會章；配合年會主題出版思源期刊。
7. 年會主題：「健康養生 X 財富管理 = 品味文化 + 快樂退休」(8/1-3/2014)。本 研討會分下列重要主題進行研討：(1 ） 追求健康長壽之生理, 心理及社會途徑； （ 2 ） 打造適合老年居住生活之環境；(3 ）茶藝文化和藝術創作與健康生活品 質促進；(4 ） 降低慢病 / 肥胖風險之保健食品的選用。申請到科技部（舊名國科 會）會議專案補助 。非常榮幸地能夠邀請到世界聞名的百歲人瑞研究專家 Dr. Poon 與會並以「Bio-psycho-social approach to living long & living well 」做 專題演講。年會並以三場 concurrent sessions 熱列進行：Scientific Session，Culture & Art Forum Session (+ tea ceremony) ， and Young Scholar Session 的口頭論文發表。
8. 成功招募並審核通過 11 位新會員（ 8 位 Regular Members，3 位 Student Members)，其中九成為博士畢業未滿五年的新生代學者或學生。並依 bylaws 增設 Associate Member 申請表，鼓勵 已畢業，已有碩士學位，但專業相關工作 經驗尚未滿五年的臺灣學者參與並加入協會。

2014 ~ 2015	會長: 黃金澤	副會長: 何婉麗	秘書: 桂慶寧

第三十九屆大會：二〇一六年八月七日至九日於亞特蘭大 。
1. 主題：「創新科技應用與優質休閒生活」。
2. 講員邀請到目前擔任台灣 Google 董事總經理的簡立峰博士，大受歡迎。除了簡 立峰博士講物聯網，唐繼軍博士講電腦遊戲，Dr. Jenay Beer 講機器人，和張玉佩教授用視訊的方式談網路媒體，和我們年會的主題都能密切結合，深度廣度 兼備。
3. 感謝曾經與我一起努力奮鬥的幹部們，我的副會長何婉麗博士，秘書桂慶寧博 士，財務黃麗勳博士；感謝何智達醫師提供了各種疑難雜症的諮詢（以及心理輔導)，並且親自帶我拜訪各處尋求廣告贊助；感謝陳英偉醫師主持

醫藥講座，王祥瑞博士在場地和晚宴預訂的辛勞；感謝劉孟周為我們編輯了內容豐富的思源 雜誌和規劃了一場有益身心的秋季健行；感謝詹勵堅博士和洪金城博士在藝文 講座和年會會刊美編方面的協助；感謝黃火金博士管理學會網站；感謝黃耀文博士主持年會主題演講；感謝黃喜玲博士和林宜穎博士為青年學人安排了精彩充實的論壇；感謝尤思治在影音器材租借和使用的協助；感謝林遵瀛醫師年復 一年在年會中為會員們提供針灸服務；也感謝各位州代表在會員聯繫和關懷所 付上的時間和心力。

2015 ~ 2016	會長: 何婉麗	副會長: 黃喜玲	秘書: 張守玉

第四十屆大會：二零一六年八月五日至七日於亞特蘭大。

1. 2015 年 8月22日在僑教中心與亞特蘭大僑社共同舉辦『台灣美食饗宴園游會』。2016 年 2月13-14日在亞特蘭大僑教中心舉行春節園遊會。學人協會多名會員與新加入會員均熱情參與支援。2. 2015 年 8月16日『玉山科技申請大學講座』由玉山科技主辦，亞城眾社團共同協辦。同年 8月23日與亞城眾社團合辦第一次健康講座（會員陳百陽醫師：心臟病的新療法）；12月6日第二次健康講座（會員謝文儒醫師：認識和預防流感）；2016 年 4月2日合辦第三次健康講座（會員謝文儒醫師：茲卡病毒）。 3. 2015 年 11月7日第一次干部會議決定凡是州代表還有會員幹部遠道來參加幹部會議者，可得到車 油費或一晚住宿費的補助。 4. 2016 年 2月23日支援台灣台南賑災捐獻共約 565 美元。 5. 2016 年 3月12日由本會主辦，中華總會協辦『2016 政治經濟座談會』，由前任會長謝復生教授主講政治，鄭義為教授主講經濟，本場座談會精彩紛呈，討論熱烈。 6. 2016 年 4月23日本會於北卡 Cary 主辦北卡會員聯誼與時事座談，時事座談主題為『2016大選與海峽兩岸關系』，由會員李偉欽教授主講。 7. 2016 年 8月5日大會舉行「智慧城市」論壇，台灣來的大會講員與本會會會員們參訪喬治亞理工學院與此次大會主題相關的幾個緥驗團隊，其中包括蔡宜長教授、黃京華教授、田芳教授、 楊沛儒教授及 Rodney Weber 博士所指導的緥驗室。參訪行程之外，與會學者專家亦針對此次會議主題，於當日下午進行台美產官學研圓桌座談與經驗交流。

2016 ~ 2017	會長: 黃喜玲	副會長: 吳珠菊	秘書: 張嘉蘭

第 41 屆大會：2017 年 8月四日至六日於亞特蘭大。

1. 本年共舉辦了三次健康講座 (9/24/2016, 4/3/2017, 4/29/2017),合辦單位包括臺大美東南校友會, 美東南區北一女校友會, 台美醫師公會, 中華總會, 中華學人協會, 亞特蘭大慈濟人醫會, 美東南玉山科技協會, 亞城華人醫師協會。

2. 本年共舉辦了兩次健行活動 (11/6/2016, 4/22/2017), 合辦單位包括台大，政大，師大，東海，北 一女五個校友會。

3. 本年協會參與了僑界春節園遊會籌備會以及負責收門票的工作,另外也參與了僑界成立關懷救助 協會籌備會以及僑務座談會,並協助推廣僑界各項活動。本年協會參與的官方活動包括歡送戴輝 源處長晚宴,歡迎高碩泰大使及吳新興委員長蒞臨亞特蘭大餐會,歡迎劉經巖處長就任餐會。協會參與的其他社團活動包括玉山科技協會年會及贊助感恩餐會及亞特蘭大華人獅子會募款晚會。

4. 本年協會與經濟部簽署了海外延攬人才合作備忘錄 (MoU),將配合政府加強海外人才招攬計劃。

5. 本年年會主題為創新的 21 世紀：生技醫療，循環經濟，與科技教學國際研討會,邀請了來自南北卡州,阿拉巴馬,及喬治亞四州講員。週日健康講座更一改往例與亞特蘭大健康講座系列合併,開放 給非會員來賓參加,並與臺大美東南校友會,美東南區北一女校友會,台美醫師公會,中華總會,中華學人協會,亞特蘭大慈濟人醫會,美東南玉山科技協會,

亞城華人醫師協會合辦。青年學者錄取了四 位並頒發獎學金,也請辦事處經濟組戴素琳組長為青年學者介紹並持續為青年學者做就業輔導。

6. 本年協會持續更新 data base 及臉書與網頁,希望未來能整合成一個單一的網站。 感謝黃火金,劉孟周,林育茹與曹晉維在這方面的努力。年會已全面改為網路註冊,以便利未來長期管理及節省經費。非常感謝尤思治的大哥 Ben又再次免費為我們管理。

7. 本年基於經費考量並未發行思源,而是以電子版出刊,感謝劉孟周持續當思源編輯。

8. 本年共有五位新會員加入,同時劉孟周已答應競選副會長。

9. 除了所有幹部,我要特別感謝何智達醫師在 fund raising 上給我的幫助,王德委員出借辦公室給我 們開會還贊助幹部餐會,何婉麗前會長耐心的回答我的問題,王祥瑞委員在年會場地餐會給我的各項協助,尤思治大哥一一打電話給喬治亞州每個會員鼓勵他們參加年會,黃麗勳在身體微恙又退休 財務的情況下又熱情幫忙財務,我的好姊妹跟智囊團-副會長吳珠菊跟秘書張嘉蘭,所有幫忙認養房間的幹部(洪延康,尤思治,牛中怡與管家義,蕭孟昌,張嘉蘭,劉孟周,鄭胥德),以及春節園遊會義工陳 英偉,張靜宜,吳珠菊,何婉麗,張守玉),還有年會晚會主持林俞君,蕭毅堅,李崢嶸,陪我去經濟部簽署合作備忘錄的王和清與蔡宜長等,族繁不及備載,有漏掉的敬請原諒!

2017 ~ 2018	會長: 吳珠菊	副會長: 劉孟周	秘書: 張嘉蘭

第 42 屆大會:2018 年 8月3日至5日於亞特蘭大。

1. 2017-2018 期間,我們主辦了五場活動,天文講座(08/19/17),學人協會下午茶聚會(02/10/2018), LBTGQ 教育講座(02/24/2018), 電影賞析講座(03/10/2018), 和柯華葳博士的【如何提升閱讀力】 的閱讀講座 (08/05/2018)。與其他亞特蘭大各社團協辦了三個活動:大學申請講座 (8/12/2017), 健康講座 (04/22/2018) 和春季郊遊 (04/28/2018), 合作的協辦單位有:美東南玉山科技協會、北一女 校友會,台大校友會和亞城散步網。並且,贊助了兩場活動;亞特蘭大春節園遊會和關懷救助協會的慈善義演。

2. 2017 年八月份的 『星星太陽月亮』天文講座特別配合 2017 年 8月21日發生的日全蝕,請喬治亞州立大學饒惟君博士來開講,這是自1945 年以來在北美的第一次全日蝕。此次講座講解日月蝕的發 生原因以及天文家如何應用" 蝕 "的技術來發現太陽系以外的行星。這次的講座圓滿成功。有八十多位來賓參加!饒博士的演講生動、內容有趣,滿滿的科普訊息,讓與會人士在天文科學方面的 知識又增長了不少!

3. 2017 年的九月份,我學人協會也熱心參與僑界公益活動,與「亞特蘭大僑界關懷救助協會」(簡稱關懷救助協會)偕同各協辦社團,安排接訪九天廟口劇場演團,於 2017 年 9 月 20 日晚上舉行 「鼓 鳴旗飛慶雙十」慈善表演晚會。

4. 2018 年二月份,我們協會的資深會員王祥瑞委員和王德委員是亞特蘭大春節園遊會籌備會的召集人。此次活動更是動用二十位會員們來做義工幫忙,共襄盛舉歷史悠久的春節園遊會。

5. 春節期間,首次應景舉辦學人協會春節下午茶聚會,主要目的是聯絡會員感情,在春節期間跟老朋友及新朋友相聚,幹部之間還可以討論公事,促進幹部之間的友誼和溝通。同時,我們也慶祝陳英偉醫師的太太張靜宜,榮獲博士學位。

6. 2018 年二月份的教育講座,喬治亞州立大學謝國昱教授以活潑平易近人的演說的方式讓大家對 LGBTQ(同性戀、雙性戀、變性人、及未知性向的)的族群有進一步的了解。

7. 2018 年三月份的悲情城市之電影賞析有三十五到四十人參與。艾格尼絲斯科特大學(Agnes Scott College)的歷史系吳淑錦教授帶著我們回到每個代表鏡頭,重新思考、審視,導演想要表達的觀點是什麼?細膩而精闢的賞析,讓我們透過電影,看見台灣歷史、感受歷史、走入歷史。

8. 第四十二屆年會暨國際研討會於 2018 年的 8月3至5日在美國亞特蘭大Sonesta Gwinnett Place 舉 行。今年的會議和駐休士頓台北經濟文化辦事處科技組合辦,加上各學術單位、偕亞特蘭大經濟文化辦事處和亞城華人社團的贊助支持,為老、中、青三代建立了交流和分享經驗和專業知識的國際座談平台。有別於往年年會的科技和生技主題,這次主題「大腦科學與兒童,跨世代教養,與健康老齡化 」。因為大腦科學、抗老、親子、教養都是當今時代非常重要而且是有需求、值得深入探索的話題。年會的三大主軸分別為:大腦科學與兒童暨健康老齡化,跨世代教養觀,身與心的平 衡。今年學人協會邀請到十三位華洋知名學者,例如:紐約州雪城大學家庭研究與兒童發展學系的榮譽教授 Dr. Alice Honig,喬治亞州立大學護理學系的副院長 Dr. Susan Kelley,喬治亞州立大學老人學系所長 Dr. Elisabeth Buress,紐約州艾伯特. 愛因斯坦醫學院的臨床心理治療師 Dr. Teresa Hsu-Walklet,以及台灣中央大學學習與教學研究所.

2018 ~ 2019	會長: 劉孟周	副會長: 朱子宇	秘書: 張嘉蘭

第 43 屆大會 : 2022 年 8月2、3、4日在亞特蘭大舉行，主題為「城市生活的科學與藝術」。

這次的年會配合慶祝台北與亞特蘭大締結姊妹市四十週年，特別增加一天對外開放的姊妹市論壇， 讓來自台北的城市規劃設計專家-前副市長林欽榮教授、都市議題評論家邱秉瑜先生及名建築師謝文 泰先生與亞城的都市規劃總監 Tim Keane 先生及 Atlanta BeltLine 創始人 Ryan Gravel 共聚一堂，進 行一天的研討交流，最後並有雙方的問答對談。圍繞年會主題的九場講演持續在八月三日舉行，由喬治亞理工都市規劃系的 Ellen Dunham-Jones 教授主講開場。八月四日則先舉行會員大會，之後 舉行學人協會基金會支持舉辦的青年學者獎發表會，由本年甄選得獎的四位醫學研究學者提出報告。今年還特別選擇接近城區的地點作為年會會場來配合城市主題。

會務方面，積極利用協會的官方網站功能，持續努力完善網頁的外觀及內容的組織結構。在社群媒 體上，鼓勵會員使用 Line App 溝通分享生活點滴，並組織幹部族群，方便聯繫。副會長朱子宇在年會網路註冊軟硬體上的多方努力，讓使用過程比往年更加順暢。今年依據去年訂立的保護個資的原則，不印發通訊錄。

今年有兩位新加入的永久會員：張嘉蘭博士及陳淑玲博士；另有六位新會員，依加入時間分別是：魏鳳珠博士、陳淑玲博士、廖國荏博士、張程鈞博士、黃思傑博士生、蔡宜長博士。令人感動的是失聯資深會員紀經增博士重新申請入會，因此技術上而言，今年共有七位新會員。

協會這一年來主辦、合辦、協辦或參與的重要活動彙整如下:

1. 10/20/2018 Job Placement Seminar at Georgia Tech : 協辦為亞城大專及研究所台灣學生舉辦的 就業座談會。活動在喬治亞理工與中華民國 107 年國慶盃保齡球賽同日先後舉行。資深會員邱培堯律師講解學生身份學位後的工作或移民策略及須知。吳珠菊博士、魏鳳珠博士為學生提供人生及職涯計劃的指導。

2. 11/03/18 Staff BeltLine Walk & Meeting at BeltLine East : 協會幹部以城區健行的方式體驗 Atlanta BeltLine 及附近街區的整體發展，並進一步討論以城市生活為主題的年會籌備策略。

3. 11/10 Monte Jade Annual Conference at Hilton: IoT and Innovation : 玉山科技與學人協會一向 相互支持合作。會長劉孟周、前會長黃火金、吳珠菊受邀參與玉山創意獎評審；玉山年會時， 特別邀請秘書也是副會長候選人張嘉蘭博士及公關組組長魏鳳珠博士出席；都具有觀摩學習及 協同合作的雙重用意。

4. 12/1/2018 Health Seminar at CCC 1）王少山醫師 (Steven Wang, MD) :「心臟疾病的預防與治療」; 2）王東醫師 (Dong Wang, MD) :「腦中風可以預防嗎？」。統計資料顯示，心臟疾病和腦中風已高居全美第一及第五死因。預防勝於治療，認識疾病，進而採行合宜的策略防治疾病，是中老年人養生保健的首要考 量。亞城心臟科醫師王少山 Dr. Steven Wang, M.D 及腦中風治療專家王東醫師 Dr. Doug Wang, M.D. 解說心臟病及腦中風的緣由及預防方法。

5. 12/08/2018 Post-Election Forum at CCC : 中美大選後的政經情勢論壇：矗立在十字路口的台 灣？邀請三位同是資深會員的政經專家：謝復生教授、黎建彬教授及鄭義為教授，舉辦一場選後政經情勢分析論壇，由張嘉蘭博士主持，僑界大眾參加踴躍。美國競爭劇烈的十一月選舉後，中華民國的地方選舉也有戲劇性的結果。兩國國內政黨縶力各自重塑，新的政局也可能牽動政策的變動和調整。論壇聚焦於探討此一政經新局勢對美中台內政、外交及經濟政策的可能影響，同時展望明年台灣經濟成長態勢與通膨可能性，以及評估美中貿易戰中的挑戰與機遇。 謝復生教授 Dr. John Hsieh (U. of South Carolina, SC): 台灣九合一大選後的政黨重組。黎建彬教授 Dr. Chien-pin Li (Kennesaw U., GA): 大選後的美中台三邊關係。鄭義為教授 Dr. William Cheng (Troy U., AL): 大選後的美中台經濟互動。

6. 1/19/2022 Alabama Mini-Conference at Huntsville : 為了能深入了解各州區的會員及地方特色， 強化各州區會員對協會的向心力，聯合副會長朱子宇博士召集了一次阿拉巴馬州區的會員聚會。會中阿州的資深會員，僑務委員蔡裕棟博士介紹在台、美、中三地經營事業的不同經驗，企業家精神令人景仰。工程師出身轉向以藝術創作為人生中心的會員王克緆女士分享她事業轉型的心路歷程，並展示她的作品。這次的聚會還有失聯多年的資深會員紀經增重回協會，另介紹了兩位申請加入我會的新會員：張程鈞博士及博士生黃思傑先生。

7. 3/9/2022 Trade War and Its Impact Forum at CCC : 與玉山科技協會合辦論壇：中美貿易爭端 的探討，主講人都是我會資深會員。其中鄭治明教授為主講人，以數據及經濟理論定位中美貿易的長期趨勢及影響。鄭義為教授解析美國當政鷹派面對中美貿易失衡的核心策略。陳開堯則分析貿易戰分身成科技戰對股市可能的影響。這次的論壇正對時事變化，演講內容深入淺出，觀眾參與也非常踴躍。

8. 4/21 Health Seminar at CCC 1) 左立醫師主講「過敏的方方面面」; 2) 李曉松醫師主講「保持身心健康，活出精彩人生」。兩位醫師準備充分，能言善道，回答風趣，真是醫學普及的典範。

2019 ~ 2020	會長: 朱子宇	副會長: 張嘉蘭	秘書: 林彥君

第 44 屆線上大會: 2020 年 10 月31日美東時間下午一時至三時。

1. 年會主題「5G 到 6G 科技應用及網絡安全」(5G to 6G Technology Application and Cybersecurity) .

2. 講員邀請到三位學者做線上專題演講：喬治亞理工學院光纖射頻技術領域專家張繼昆教授探討 從 5G 到 6G 數據通訊的科技演進，及下一代 6G 無線網路的技術發展方向。喬治亞理工學院土木 與環境工程系蔡宜長教授從多方面談新冠病毒的傳播追蹤及時空分析。由衛星導航及藍芽追蹤 已感染的患者，追蹤接觸途徑，由數據分析中預測高感染區及即時提供大眾更新的資訊。最後 由南卡羅來納大學網絡安全研究學院黃金澤教授介紹干擾政府部門、商業及

個人用戶的勒索軟體 (ramsonware)，分析它的散播路徑及意圖，教導大家如何避免，及若不幸被駭客勒索時的正確反應措施。

3. 本年度由於疫情關係，大部分活動皆暫停舉行。比較往年的年會的盛況, 線上會議有許多的不足 之處。 但是考量大家身體健康及旅途的安全, 這樣的線上網路會議就像遠距教學及遠端工作一樣 成為這一年多來的常態。

4. 感謝這一年半來和我們一起努力奮鬥的幹部們, 副會長張嘉蘭博士, 財務長黃麗勳博士及前會長們在各項縗體及線上活動的支持, 從九月份和台灣大校友會合辦的 Gibbs Garden 健行, 十月份玉山科技年會的參與到十一月台北市立交響樂團到亞城的表演直到二月份的春節園遊會都有學會與其他僑團的通力合作。

5. 本年度招募並審核通過三位新會員: 陳昭光, 王聲揚, 陳永祺。

2021 ~ 2022	會長: 張嘉蘭	副會長: 陳美蘭	秘書: 魏鳳珠

第四十五屆大會：2022 年 7月30日至31日於亞特蘭大。

1. 自2020 年 1月起，全球政治經濟社會各層面均深受新冠疫情影響，本屆學人協會於 2021 年間致力於充縗協會的官方網站資訊，活動以線上演講與座談會為主；隨著疫苗的廣泛施打，則逐漸輔以戶外活動，並於 2022 年 7月底舉辦睽違三年的學人協會年會。

2. 邱禕之(Esther Chiu)女士巧思改版學人協會網站(www.capasus.org)，協助網站變得更溫馨與更具資源性，設立<天南地北>部落格，邀請協會會員投稿，並張貼線上演講的活動內容。

3. 2021 年間，學人協會邀請專家學者為會員與社會大眾舉辦七場線上專題演講座談(三場英文與四場中文)。有關各座談會內容與詳情，請參考 2022 年《思源》雜誌中的摘要與協會 YouTube 頻道上的錄影:

4. CAPASUS 2021 Webinar Series no. 1 by Dr. Oliver Tu 杜立崑醫師, Hospitalist at Northside Hospital, "Promotion and Preservation of Chinese Language Heritage: Experiences from Homeschooling, Facebook, to Chinese Debate International," Feb 24, 2021 (https:// www.youtube.com/watch?v=TdgI_txnWg4&t=8s)

5. CAPASUS 2021 Webinar Series no. 2 by Dr. Edward Huang 黃建中教授, George Mason University, "Types of Criminal Activities During the Covid-19 Pandemic," March 13, 2021 (https://www.youtube.com/watch?v=ObvRNT5uGJI&t=157s)

6. CAPASUS 2021 Webinar Series no. 3 by Dr. Wei-Li Chen 陳偉勵教授, 台灣大學醫學院教授暨 台大醫院眼科醫師, "超吸睛的眼球秘史," April 10, 2021 (https://www.youtube.com/watch? v=URL8OO0eq5I)

7. CAPASUS 2021 Webinar Series no. 4 by Dr. Chu-Chu Wu 吳珠菊教授, Georgia Southwester State University 與 Dr. Emily Lin 林彥君教授, University of North Georgia, "疫情下的家庭關 係互動," May 8, 2022 (https://www.youtube.com/watch?v=MUNjQC7_-VQ)

8. CAPASUS 2021 Webinar Series no. 5 by Dr. Chih-Wei Chang 張致維博士, Dr. Steven Liang 梁越昇教授, Mme. Nancy Tai 戴念華女士, Dr. Ross Wang 王介博士, Dr. Jeff Wu 吳建福教授 (以姓氏的英文字母排列), "2021 CAPASUS Scholars/Professionals' Career Development: Challenges and Opportunities," hosted by Dr. James Tsai, September 11, 2021 (https:// www.youtube.com/watch?v=zxcBYFUOtEQ)

9. CAPASUS 2021 Webinar Series no. 6 by Dr. Su-I Hou 侯書逸教授, University of Central Florida, "長青社區: 前瞻性的計畫方案和經驗分享," September 25, 2021 (https:// www.youtube.com/watch?v=SePueo-9mnc)

10. CAPASUS 2021 Webinar Series no. 7 by Dr. Meng-Chang Hsiao 蕭孟昌博士, Columbia University, “精準醫療如何轉變醫療健康產業” October 30, 2021 (no video recording)
11. 邱禕之女士製作多場 2021 年線上演講與座談會的錄影(請見上方連結)，上傳於協會的 YouTube 頻道。
12. 2021 年 3月，學人協會聯合其他四個本地社團(甘斯維爾商會、美東南區玉山科技協會、世界華人婦女企管協會亞特蘭大分會以及全美華人協會)迅速提出聲明，向亞特蘭大槍擊案受害者家屬表示哀悼之意，譴責暴力，並呼籲各界關注疫情下對亞裔仇恨犯罪所造成的社會危害。
13. 2021 年 5月，學人協會由魏鳳珠 (Alice Stanley)博士代表，參與協辦世界華人婦女企管協會亞 特蘭大分會所主持的“支持台灣參與世界衛生大會”的汽車大遊行。
14. 2021 年 10月，僑務委員王祥瑞博士與蔡裕棟博士、資深會員與前會長康薇與陳開堯夫婦、何智達醫師、鍾斌博士與學人協會會長張嘉蘭等人，出席國慶酒會，共襄盛舉。
15. 2021 年 12月，僑界於僑教中心賴麗盈主任卸任與新主任歐宏偉上任時舉辦新冠疫情開始以來的難得的餐會，蔡宜長博士、副會長陳美蘭博士、廖國芒博士、前會長劉孟周(Mac)與邱禕之(Esther) 夫婦，會長張嘉蘭參與，積極與各僑界有人暢談未來規劃。
16. 2021 年 10月，在魏鳳珠博士的主辦下，學人協會與台大校友會亞特蘭大分會合辦藍嶺火車景 觀之旅(Blue Ridge Train Ride Scenic Trip)。
17. 2022 年 4月，學人協會舉辦社區健行活動，由任職於 Kresge Foundation 的紀有容女士帶領會 員與友人漫步於亞特蘭大市最大的城市公園 Westside Park 以及周邊社區，並進一步談論如 何從事社區參與以及社區的永續性發展議題。
18. 2022 年 4月，同時擔任亞特蘭大華人醫學會(CMAATL)會長的牛中怡醫師主辦並主講<牙周病 的預防與治療>健康講座，學人協會與東南區北一女校友會(TFGHS Alumni) ，臺大美東南校友會 (NTUAA Southeastern US)，台美醫師公會 (TAMASUS)，與美東南玉山科技協會 (MJSTASE)，一同協辦。
19. 2022 年七月三十日至三十一日，學人協會舉辦海外學術研討會，並慶祝本會 45 週年紀念。本 次大會主題為『從巧緷力到智慧國家：跨國亞裔社群與數位科技及人文』，採取緷體與線上綜合型式 (hybrid format)，邀請會員與各界人士或親自參與以聯絡感情，或線上參與以獲取 新知，以因應後疫情生活型態。本次年會很榮幸請到五位台灣主講者遠距為美國僑界與本會 會眾演講：於美東時間三十日上午，中華民國（台灣）國史館陳儀深館長與故宮博物院蔡炯 民博士就二戰後檔案研究與檔案館及博物館的數位化進行深度解說；三十一日上午，中央研究院鄭維中教授、國防大學任天豪教授、與政治大學李福鐘教授就全球格局中的近現代東亞 歷史政治給予精闢演講。美東南區的學者與專業人士如喬治亞理工學院蔡宜長教授、喬治梅 森大學黃建中教授，與南卡大學黃金澤教授，則在三十日介紹最新的智能與數位科技發展， 題目涵蓋智慧城市、智慧供應鏈、與數位鑑識學。南卡大學趙濟民教授與 Seulghee Lee 教授 均積極參與南卡 AAPI 委員會，主講討論三十日下午<美東南區亞裔美人的公民參與活動>。 三十日下午，有五位青年學者—謝詠安、許柏凱、古耘睿、李孟謙、王子函—獲選報告其最 新研究概況，並接受學人協會基金會獎學金。同時，協會會員也積極參加會員大會與晚宴。 三十一日，除三位台灣講者外，年會還為亞裔青年學者設計一場題為”如何提升自我準備以進入美國產業”的座談會，廣邀各界不同階段青年學者參與座談。
20. 本年度，來自北卡羅萊納州 Wake Forest University 的李偉欽教授接受提名為副會長候選人。
21. 本年度招募並審核通過五位新會員(三位正式會員，兩位學生會員)：陳姝婷(Tina Chen)、 許傳傑(Jay Hsu)、李功俊 (Jim K.J. Lee)、李孟謙(Nealson Li)、與廖迎嬋 (Janet Yin-Chan Liao)。

22. 協會於 2022 年會期間發行兩本刊物：《大會會刊》(邱禕之主編)及《思源》電子雜誌 (何婉麗主編、樂瓊美編)。

23. 自2020 年以來，學人協會會員在面對各種挑戰之餘，不僅從不懈怠地為協會舉辦各種活動與 增進線上參與，更是努力為協會尋求各方資源與新的方向。非常感謝各位幹部的協助與前輩的建言：2021-2022 年度學人協會加速數位化，在此特別感謝邱禕之與前會長劉孟周 (Mac Liu)的大力協助，為學人協會時時更新官方網站，設計各種精美海報、廣告、封面與宣傳手冊，設計、主編年會會刊，與辦理許多線上演講與座談。喬治亞理工學院蔡宜長教授時常關 注亞裔與學生族群的職涯發展，並多方協調與主持 2021 年 9月的職涯發展座談會。在年會籌辦的數個月期間，年會組仰賴資深會員何智達醫師與喬治亞理工學院王祥瑞教授，為協會尋求贊助，與各方協調，成功舉辦了 2022 年年會。新會員李功俊與資深會員尤思治為了 2022 年 會的視聽設備與效果等費心設計、出借設備並親自管控會議的數位輸出全局。何婉麗前會長 與協會之友樂瓊慨然接下編輯《思源》的重責，並完成美麗的《思源》。

這一年多來，還有很多幹部與資深會員多方提醒與協助，雖然無法一一列出您的姓名，但在此疫情非常時刻，您的參與，就是對協會最大的支持。感謝!

2022 ~ 2023	會長: 陳美蘭	副會長: 李偉欽	秘書: 魏鳳珠

第四十六屆國際學術研討會：2023 年 9月15日至17日於亞特蘭大。

1. 感謝紀佳榮先生義不容辭擔任 CAPASUS 的網站管理職務，我們的網站才得以順利運作。
2. 2022 年 8 月 13 日, 陳美蘭會長代表 CAPASUS 出席參加由僑務委員會所舉辦的亞特蘭大留學生搭橋計畫交流餐會。
3. 2022 年 8 月 27 日, 陳美蘭會長代表 CAPASUS 出席參加世界華人工商婦女企管協會亞特蘭大分會第五周年慶商展暨晚宴活動。
4. September 24, 2022, CAPASUS 2022 Webinar Series no. 1 by Dr. Mei-Lan Chen 陳美蘭博士 and Dr. Ing-Jy Tseng 曾櫻枝教授, Effects of Resistance Exercise and Gait Training on Cognitive Function, Fall Prevention, and Physical Performance in Older Adults, 一共吸引了約 135 人次參與者共襄盛舉！活動結束後，我們收到了許多僑界先進、前輩，以及聽眾的熱烈迴響、支持與鼓勵。
5. 2022 年 10月，陳美蘭會長、魏鳳珠秘書長、前會長何智達醫師、僑務委員王祥瑞博士、蔡裕棟博士、前會長康薇與陳開堯夫婦、鍾斌博士、管家義教授與牛中怡醫師，出席國慶酒會，共襄盛舉。
6. October 22, 2022, CAPASUS 2022 Webinar Series no. 2 by Dr. Hsin-Chien Lee 李信謙教授/主任醫師 and Dr. Jung-Lung Hsu 徐榮隆教授/主任醫師, Older Asian Americans Healthy Aging, 由何智達醫師主持 Q&A session。一共吸引了約 95 人次參與！
7. 2022 年 11月，魏鳳珠秘書長與廖國荏財務長代表 CAPASUS 出席參加美東南玉山科技協會年會。
8. November 19, 2022, CAPASUS 2022 Webinar Series no. 3 by Dr. John-Pang Yu 余金榜博士, Dr. Edward Huang 黃建中博士, and Mr. Ray Hung 洪瑞澤先生, Academic and Professional Career Development in the US, 吸引許多學生熱烈參與！

9. 感謝所有幕前、幕後的 CAPASUS 活動組幹部們：魏鳳珠、紀佳榮、許柏凱、陳楚云、時繼驤、牛中怡、謝晨、蕭緯佑。你們的付出、參與和協助，線上演講活動才能如此順利、圓滿、成功！三場的線上公益演講活動，一共吸引了約 265 人次的參與者！
10. 2023 年 1 月，由 CAPASUS 協辦、參與亞特蘭大僑教中心的 1/22 春節園遊會。由衷感謝魏鳳珠、張靜宜、劉孟周、謝鳴正、許柏凱和蕭緯佑等幹部們，代表 CAPASUS 參與並協助 2023 年春節園遊會（春節聯歡會）！
11. Student Networking Committee 主席許柏凱代表 CAPASUS 積極參加 Georgia Tech 台灣學生會 2022-2023 年的活動。
12. 本年度招募並審核通過 9 位新會員 (2 位正式會員，7 位學生會員)：紀佳榮 (Jack Chi) 、Mark Ming-Cheng Cheng 、許柏凱 (Po-Kai Hsu)、陳楚云 (Chu-Yun Chen) 、謝晨 (Chen Hsieh)、林哲齊 (Jeffrey Lin) 、林哲濠 (Eric Lin)、李維儀 Wei-Yi Lee 與黃隨 (Sue Huang)。
13. 第四十六屆國際學術研討會於 2023 年 9月15至17日在美國亞特蘭大Sonesta Gwinnett Place 舉行。此研討會由 CAPASUS 和 The Science and Technology Division of the Taipei Economic and Cultural Office in Washington, D.C., USA 共同主辦。研討會的主題是「Artificial Intelligence, Precision Medicine, Technologies for Pandemic Prevention, and Healthy Aging」。很榮幸能夠邀請到 CDC 莊人祥署長擔任 Keynote Speaker 。同時也邀請到許多台美知名學者與專家蒞臨演講, 例如美國 CDC 的 Associate Director Dr. L. Clifford McDonald 和謝文儒博士等等。
14. CAPASUS 於 2023 年國際學術研討會期間發行兩本刊物：《國際學術研討會會刊》(Jeffrey Lin 主編、謝鳴正、陳楚云&王聲揚編輯)及《思源》電子雜誌 (何婉麗博士主編、王泰安醫師與俞維真老師美編)。
15. 這一年來，深深感謝秘書長魏鳳珠博士和財務長廖國荏博士全力的協助與付出。特別感謝何智達醫師在募款上大力幫忙，也要謝謝何智達醫師、何婉麗博士、李偉欽博士、陳英偉醫師、謝文儒博士、王祥瑞博士、吳珠菊博士、劉孟周前會長、黃喜玲博士、張嘉蘭博士、林彥君博士和王聲揚博士，對會務提供了寶貴的建議與諮詢。感謝學生幹部團隊 (許柏凱、蕭緯佑、謝晨、陳楚云、林哲齊、林哲濠、許晏碩、李維儀) 的協助，所有的活動能夠順利舉行，你們的貢獻功不可沒！謝謝國際學術研討會籌備委員會幹部們的熱心參與、付出與努力! 限於篇幅無法一一致謝所有的幹部，在此表達最誠摯的感謝。

註: 本簡史 2006 年前內容基本依據前會長黃麗勳提供之「三十週年特刊」紀念專輯文稿, 2006 年至 2023 年內容則依照各當年會長提供之資料。歡迎指正。

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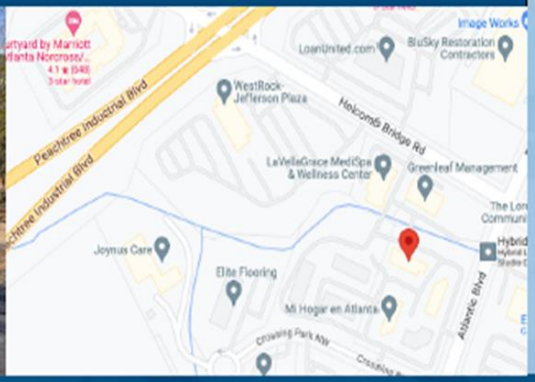

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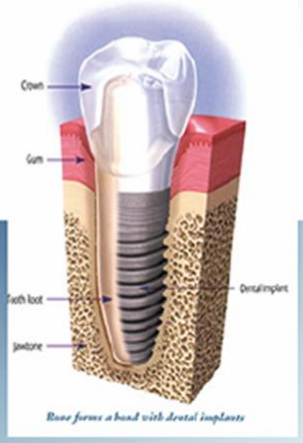

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