

ISSTA Student Committee

Building the Next Generation of Global Leaders in Sleep Medicine, Innovative Technology, Health Economics and Policy

An Invitation to Students Worldwide from ISSTA

The International Sleep Science and Technology Association (ISSTA, www.isstasleep.org) is entering a new phase of global development. Under the leadership of Prof. Dr. med Rayleigh Chiang, current President of ISSTA, the organization is expanding its international mission beyond traditional sleep medicine into a broader and more urgent frontier: sleep health, sleep technology, medical artificial intelligence, preventive medicine, digital health, and health economics and policy.

For students from all kinds of majors around the world - including medicine, dentistry, engineering, public health, social sciences, economics, policy, politics, data science, business, law, communication, and the life sciences - this is not only an academic opportunity. It is an invitation to participate in the formation of a new global healthcare movement that enriches sleep medicine and sleep technology through true interdisciplinary collaboration.

Sleep is no longer only a specialty topic within neurology, psychiatry, pulmonology, dentistry, or otolaryngology. It has become one of the most important foundations of preventive medicine, chronic disease management, mental health, workplace safety, national productivity, aging medicine, and healthcare-expenditure reduction, all about fulfilling the unmet clinical needs and societal needs. Sleep disorders affect cardiovascular health, metabolic disease, neurocognitive function, mental health, immune regulation, accident risk, and quality of life. Taking the example from dental students and future dentists, sleep medicine is especially relevant because craniofacial structure, airway anatomy, oral appliance therapy, bruxism, temporomandibular

disorders, pediatric growth, orthodontics, and obstructive sleep apnea are deeply connected.

This is why ISSTA believes that the future of sleep health must be built together by physicians, dentists, scientists, researchers, engineers, public-health professionals, social scientists, economists, policy and political science scholars, entrepreneurs, communicators, and students from all majors who are willing to bring their own disciplinary strengths into the field of sleep medicine and technology.

The ISSTA Student Committee is being developed to provide a global platform for students who wish to participate early in this transformation. It is intentionally open to students from all majors globally, because the next stage of sleep medicine and sleep technology will require clinical knowledge, engineering design, public-health implementation, social-science insight, economic evaluation, policy leadership, and international collaboration. Through education, research, international collaboration, conferences, exhibitions, leadership training, and exposure to real-world medical AI and sleep technology implementation, the committee will help prepare the next generation of leaders in sleep health.

ISSTA's Global Mission and the Role of Students

ISSTA has long promoted the integration of sleep science and advanced technology, as its mission when initially founded in Berlin, Germany decades ago. Its mission was to connect sleep medicine with advanced technology, data science, artificial intelligence, biomedical engineering, digital health, clinical care, and later on extending to the health economics and public policy after the efforts on the global organization and national institutes, such as APEC in 2017 and US DOT (Department of Transportation) in 2020.

Under the leadership of Prof. Dr. med Rayleigh Chiang, ISSTA has advanced a series of international initiatives that demonstrate how sleep medicine can move from the laboratory and clinic into population-scale health systems. These initiatives include academic collaborations, technology-development platforms, international policy agendas, medical AI centers, and health-economic frameworks designed to reduce avoidable healthcare costs through

better sleep-health risk identification, sleep-disorder detection with early and precise intervention.

For students, these activities create a rare opportunity. Current students usually encounter sleep medicine only briefly in their formal curriculum, even though sleep disorders are highly prevalent and strongly associated with major health burdens. ISSTA's Student Committee aims to fill this educational gap by creating a structured pathway for students to learn, contribute, and lead.

The committee will encourage students to explore questions such as:

- *How can sleep medicine become a core component of preventive healthcare?*
- *How can dental students contribute to the early detection and management of sleep-disordered breathing?*
- *How can artificial intelligence improve sleep screening, diagnosis, triage, and long-term monitoring?*
- *How can students participate in global research and public-health projects before graduation?*
- *How can sleep-health interventions reduce healthcare expenditure and improve quality of life at the population level?*

These questions are not theoretical. They are already being addressed through ISSTA's international activities.

The Medical AI Institute at Sam Houston State University

As part of ISSTA's global development strategy, the first Medical AI Institute in the United States has been launched on the medical campus of Sam Houston State University (SHSU) where Prof. Dr. Rayleigh Chiang is the co-founder of this Medical AI Institute, and is appointed as the Clinical Professor.

This institute represents an important step toward building a new model of medical education, clinical innovation, and translational research. It connects sleep medicine, medical AI, digital care pathways, health economics, and real-world implementation.

For students across medicine, dentistry, neuroscience, computer engineering, public health, social sciences, economics, and policy, the significance of this initiative is clear. The future of healthcare will require clinicians, engineers, researchers, social scientists, economists, and policy leaders who understand not only anatomy, physiology, diagnosis, and treatment, but also data science, AI algorithms, device development, human behavior, workflow design, healthcare systems, reimbursement, regulation, and public-health impact. Sleep medicine provides an ideal training ground because it is deeply interdisciplinary and closely linked to major chronic diseases, human performance, public safety, and healthcare costs.

Through ISSTA's educational and student-oriented programs, students may be introduced to concepts such as AI-supported sleep screening, digital biomarkers, remote patient monitoring, scalable sleep-lab models, population-health analytics, and interdisciplinary care pathways involving physicians, dentists, scientists, technologists, and public-health experts.

Prof. Dr. med Chiang's Academic and Professional Background

Prof. Dr. med Rayleigh Chiang's career reflects the interdisciplinary direction that ISSTA seeks to promote.

He completed his fellowship on Sleep Medicine at the Stanford Sleep Center in 2005. Together with colleagues from Stanford, National Taiwan University and Fu-Jen Catholic University, he led to define the emerging field of Sleep Technology through the publication of the first textbook in this field globally - Introduction to Modern Sleep Technology, published by Springer in the end of 2012.

This textbook helped establish the concept that sleep medicine should not remain limited to conventional clinical diagnosis and treatment. Instead, it

should be integrated with advanced technologies, especially informatic technology, data science, artificial intelligence, wearable devices, telemedicine/IoT, and scalable care models.

Prof. Dr. med Chiang is primarily based in Taipei and travels frequently between Baltimore where he is a DrPH candidate at the Johns Hopkins Bloomberg School of Public Health, Houston for SHSU, and Berlin, where ISSTA is headquartered. His DrPH dissertation focuses on ***“Sleep Health Economics”***, a field that examines how sleep disorders and sleep-health interventions influence medical expenditure, productivity, safety, chronic disease burden, and population-level health outcomes.

This background is particularly important for students because it shows that sleep medicine is not only a clinical specialty. It is also ***a public-health discipline, a technology field, an economic issue, and a global policy priority.***

Why Medical Students Should Care About Sleep Health

For medical students, sleep health is connected to nearly every major area of medicine.

Insufficient sleep and sleep disorders are associated with hypertension, cardiovascular disease, stroke, diabetes, obesity, depression, anxiety, cognitive decline, impaired immunity, chronic pain, and increased accident risk. Obstructive sleep apnea alone is frequently underdiagnosed and can contribute to major cardiometabolic and neurocognitive complications.

In clinical practice, sleep symptoms often appear in primary care, internal medicine, psychiatry, neurology, cardiology, pulmonology, endocrinology, pediatrics, geriatrics, and occupational medicine. Yet many physicians receive limited formal training in sleep medicine.

The **ISSTA Student Committee** aims to help medical students recognize sleep as a vital sign of modern healthcare. Students who understand sleep medicine early will be better prepared to identify hidden contributors to chronic diseases, improve patient outcomes, and participate in more integrated models of care.

Why Dental Students Should Care About Sleep Health

Dental students have a special role in the future of sleep medicine.

The oral cavity, craniofacial structure, mandible, maxilla, tongue, soft palate, temporomandibular joint, occlusion, airway, and facial growth patterns are all relevant to sleep-disordered breathing. Dentists may be among the first healthcare professionals to observe anatomical risk factors for obstructive sleep apnea, bruxism, mouth breathing, temporomandibular disorders, or pediatric airway concerns.

Dental sleep medicine is therefore becoming an increasingly important field. Oral appliance therapy, interdisciplinary management of obstructive sleep apnea, orthodontic considerations, craniofacial development, and airway-centered dentistry all require collaboration between dentists/oral surgeons, sleep physicians, sleep surgeons, orthodontists, pediatricians, and other healthcare providers.

For dental students, joining the **ISSTA Student Committee** can gain early exposure to this rapidly growing field. It can help students understand how dentistry fits into the larger healthcare system and how oral health can influence systemic health, sleep quality, neurocognitive function, cardiovascular risk, and quality of life.

In the future, dentists will not only restore teeth. They will also participate in preventive medicine, airway health, sleep-disorder screening, and interdisciplinary care. ISSTA seeks to help students prepare for that future.

Why Students from All Majors Should Join the ISSTA Student Committee

Sleep medicine and sleep technology are no longer limited to hospitals, sleep laboratories, or clinical specialties. They now touch engineering design, artificial intelligence, population health, human behavior, economics, law, public policy, communication, and global governance. ISSTA therefore

intends to recruit students from all majors globally to enrich the field with broader intellectual, technical, social, and policy perspectives.

Students from **schools of engineering** can help create sensors, devices, algorithms, wearable systems, software platforms, and scalable medical AI tools. Students from **schools of public health** can help design prevention programs, epidemiological studies, community screening models, occupational sleep-health strategies, and population-level implementation plans. Students from **schools of social sciences** can help ISSTA understand behavior, culture, inequality, family systems, workplace dynamics, patient adherence, and how communities actually adopt health innovations.

Students from **schools of economics** can evaluate healthcare expenditure, productivity loss, cost-effectiveness, reimbursement, insurance models, employer-based programs, and the economic value of early sleep-health intervention. Students from **schools of policy, politics, public administration, and international relations** can help translate scientific evidence into public programs, legislation, government collaboration, regulatory frameworks, and cross-border partnerships.

By bringing these students together with medical and dental students, the **ISSTA Student Committee** can become a global interdisciplinary incubator. Its purpose is not only to educate students about sleep, but also to allow students from every academic background to contribute their own expertise to build the future of sleep medicine, sleep technology, medical AI, public health, health economics, and policy innovation.

Early Student Participation and Faculty Promotion

The **ISSTA Student Committee** is already moving from concept to real participation. Early student members and participants now include representatives from Drexel University College of Medicine in Philadelphia, Pennsylvania; an Army medical student, and a neuroscience PhD student from the Uniformed Services University in Bethesda, Maryland; the Department of Computer Engineering at the University of Florida; the Dental School of Universidad Europea de Madrid in Spain; the School of Medicine of China Medical University in Taichung, Taiwan; and the School of Medicine of Taipei Medical University in Taipei, Taiwan.

This early participation is strategically important because it gives prospective members a concrete example of what ISSTA is building. The Student Committee is not limited to one profession, one country, or one academic background. It already connects medicine, military medicine, neuroscience, computer engineering, dentistry, and international medical education across the United States, Spain, and Taiwan. These students demonstrate that sleep medicine and sleep technology can become a shared platform where different disciplines learn from one another and where young leaders can contribute before graduation.

The participation of these students also creates a peer-to-peer recruitment effect. A medical student can see how sleep health connects to chronic disease and preventive care. A dental student can see the importance of airway health, craniofacial structure, and dental sleep medicine. A computer engineering student can see how sensors, algorithms, data platforms, and medical AI can solve real clinical problems. A neuroscience student can connect sleep to brain function, cognition, mental health, and military readiness. This diversity makes ISSTA more attractive to students from all majors because each student can find a meaningful role within the same global mission.

The Student Committee is also being promoted with the encouragement and support of professors from the College of Humanities and Social Sciences (CHSS) and the College of Osteopathic Medicine (COM) at Sam Houston State University in Texas, Taipei Medical University and China Medical University in Taiwan. This faculty support is especially valuable because it confirms that sleep health is not only a biomedical topic. It is also a social, behavioral, institutional, economic, educational, military, and policy issue. By connecting medical education with humanities, social sciences, public policy, and population-health thinking, ISSTA can provide students with a broader understanding of how sleep medicine can influence patients, families, workplaces, universities, governments, and society.

Based on these early examples, ISSTA warmly encourages students from all kinds of majors to participate, especially students from schools of engineering, public health, social sciences, economics, and policy or politics. Engineering students can help build technologies; public-health students can design population-level programs; social-science students can explain behavior and community adoption; economics students can evaluate cost,

incentives, and sustainability; and policy or politics students can help translate scientific evidence into public action. Together with medical, dental, neuroscience, and data-science students, they can enrich the field of sleep medicine and technology and help turn sleep health into a truly global, interdisciplinary movement.

For new student members, this means that participation in ISSTA can begin immediately and practically. Students may help organize seminars, invite classmates, develop student-to-student collaborations, prepare literature reviews, support technology demonstrations, join journal clubs, contribute to policy discussions, assist with global chapter activities, and build interdisciplinary teams across universities. The existing participation from the United States, Spain, and Taiwan, together with SHSU, TMU, CMU faculty promotion from CHSS and COM, provides a credible foundation for expanding the Student Committee to many more schools, majors, and countries.

From Sleep Technology to Medical AI

One of ISSTA's core missions is to advance the field of Sleep Technology.

Sleep technology includes wearable sensors, home sleep testing, digital sleep platforms, AI-based screening tools, telemedicine, remote monitoring, data-driven clinical decision support, and scalable sleep-care systems. These technologies are increasingly important because traditional sleep-lab models alone cannot meet the global demand for sleep-disorder diagnosis and treatment.

Many patients with sleep disorders remain undiagnosed for years. Traditional systems are often limited by cost, access, waiting time, geographic barriers, and shortage of trained specialists. Medical AI and scalable digital platforms can help address these barriers by supporting earlier detection, risk stratification, referral, and long-term follow-up.

ISSTA's **Data-Driven Scalable Sleep Labs (DSL) platform**, also known as the DSL platform, is one example of this direction. The DSL platform is designed to support scalable sleep-health screening and care coordination by

integrating digital tools, clinical workflows, data analytics, and interdisciplinary healthcare delivery.

For students, this creates a new type of learning environment. Instead of studying sleep only as a chapter in physiology, students can engage with sleep as a real-world healthcare-system challenge that requires clinical knowledge, technology design, implementation science, and economic evaluation.

The ISSTA APEC Sleep Technology Agenda

Prof. Dr. med Chiang was the principal proposer of the **ISSTA APEC Sleep Technology Agenda**, which was officially endorsed by the APEC Secretariat in 2017. This was a significant milestone because it placed sleep technology within a broader international economic and public-policy framework.

Following this recognition, the Editor-in-Chief of *Sleep Medicine Reviews*, one of the leading journals in the sleep medicine field, invited the submission of the article "*The Importance of Sleep for Governmental Sectors, General Population and Industry – Asia-Pacific Economic Cooperation Sleep Technology Agenda*," published in 2018.

For students, the importance of this history is that sleep medicine is not limited to the clinic. It has relevance to governments, industries, transportation systems, public safety, workforce productivity, healthcare financing, and international cooperation.

The **ISSTA Student Committee** will encourage students to think beyond traditional professional boundaries. Future leaders in medicine and dentistry must understand how health problems affect societies, economies, and policy decisions.

Sleep Medicine, Innovative Technology, and Health Economics

- the Golden Triangle of Future Healthcare

ISSTA has also been active in the World Sleep Congress. In 2023, at the World Sleep Congress in Rio de Janeiro, Brazil, the symposium “Sleep Science, Technology and Economy Symposium – Golden Triangle for Future Healthcare” reflected the central concept behind Prof. Dr. med Chiang’s DrPH dissertation.

This “golden triangle” — sleep science, technology, and economy — is especially important for the next generation.

Sleep science provides the biological and clinical foundation.

Technology provides the tools for scalable screening, monitoring, intervention, and data integration.

Economics provides the evidence needed to persuade governments, health systems, insurers, employers, and communities to invest in sleep health.

Students from all majors who understand this triangle will be better prepared to become leaders in modern healthcare. Medical and dental students can connect sleep health to clinical care; engineering and data science students can build scalable technologies and AI systems; public health students can translate sleep science into prevention and population-health programs; social science students can explain behavior, inequality, culture, and community adoption; economics students can evaluate costs, productivity, insurance models, and return on investment; and policy and politics students can help transform evidence into public programs, legislation, and cross-sector collaboration. Together, they will be able to communicate not only with patients and clinicians, but also with hospital administrators, policymakers, insurance systems, technology companies, employers, public-health agencies, and governments.

Global Expansion of Sleep Health Innovation

Taipei Neihu Technology Park is one of Taiwan’s most important technology and industrial hubs, with annual revenue of approximately NT\$5.4 trillion. Based on the sound foundation from the ISSTA industrial members, the globally renowned companies headquartered inside the **Taipei Neihu**

Technology Park, the ISSTA aims to connect Taiwan's technology ecosystem with international partners, including the innovation environment of Texas. Over the past 10 years, Taiwanese companies, including Wistron, Foxconn, Delta Electronics, GlobalWafers,...etc. reported 15 major investment projects in Texas. These projects represent **over US\$13.9 billion** in capital investments and created over 3,550 new jobs in Texas.

Because of the close relationship between Taiwan and Texas, and because of ISSTA's collaboration with Sam Houston State University College, ISSTA has proposed a **Sleep Health and Smart Medical Care Framework (SHSMCF)** for potential collaboration with the Texas State Government.

This framework positions Texas as a potential index-leading state in the United States for healthcare-expenditure reduction through sleep-health intervention, medical AI, and scalable digital-care infrastructure.

In April of 2025, Prof. Dr. med Rayleigh Chiang traveled from Taipei to Stanford University, the University of Southern California, San Diego State University, Johns Hopkins University, Kaiser Permanente Mid-Atlantic, Cleveland Clinic, and Houston to support the development and fundraising of ISSTA's Medical AI Centers in the United States. In Houston, he also fulfilled his responsibilities as Clinical Professor at SHSU-COM.

Together with Dean Thomas Mohr of SHSU-COM, Prof. Dr. med Chiang presented and discussed the proposed framework with the team of Houston Mayor John Whitmire during an in-person meeting at the Mayor's Office on Tuesday, April 15. The discussion included how the DSL platform, if implemented at scale in Texas, may contribute to substantial healthcare-expenditure reduction through earlier detection and better management of sleep-related conditions.

For students, this demonstrates how academic knowledge can move into real-world action. A concept developed from sleep medicine, public health, and technology can become a framework for city-level, state-level, and eventually national-level healthcare transformation.

The U.S. Chapter of ISSTA

In parallel with cooperation projects involving Kaiser-Permanente, Johns Hopkins University, SHSU-COM, and other strategic partners, ISSTA has established its U.S. Chapter in Oct. 2025.

The U.S. Chapter will serve as a platform for industrial validation, clinical collaboration, student engagement, regulatory readiness, public-health planning, and implementation of the DSL platform across the United States.

The ISSTA Student Committee can become an important bridge between the U.S. Chapter, ISSTA's global headquarters in Germany, chapters in Taiwan, Turkey, and other countries, and the global student community. Student members from different countries and majors may participate in educational activities, research discussions, journal clubs, international seminars, case-based learning, technology demonstrations, policy forums, social-science discussions, health-economics workshops, and leadership projects. The early participation of students from Drexel University College of Medicine, Uniformed Services University, the University of Florida, Universidad Europea de Madrid, China Medical University, and Taipei Medical University provides a concrete and visible foundation for recruiting more student members from medical schools, dental schools, engineering schools, schools of public health, social sciences, economics, policy, politics, and other disciplines worldwide.

Proposed Activities for the ISSTA Student Committee

The **ISSTA Student Committee** may organize activities in several major areas.

1) it can develop educational programs introducing the foundations of sleep medicine, dental sleep medicine, sleep physiology, circadian biology, sleep-disordered breathing, insomnia, hypersomnia, bruxism, pediatric airway health, and the relationship between sleep and systemic disease.

2) it can create research opportunities for students interested in literature reviews, clinical case discussions, health-economic modeling, AI-supported screening tools, digital health implementation, and public-health policy.

- 3) it can promote global student seminars, allowing students from medicine, dentistry, engineering, public health, social sciences, economics, policy, politics, data science, business, law, communication, and the life sciences from Asia, Europe, North America, and other regions to exchange perspectives on how sleep medicine and sleep technology are taught, researched, implemented, financed, regulated, and communicated in different healthcare systems. The participation of students from institutions such as Drexel University College of Medicine, Uniformed Services University, the University of Florida, Universidad Europea de Madrid, China Medical University, and Taipei Medical University can serve as the beginning of this international student-to-student network.
- 4) it can support student participation in ISSTA-led international initiatives, including the DSL platform, Medical AI Centers, the U.S. Chapter, Taiwan-Texas collaboration, future World Sleep Congress activities, and chapter-based activities in Germany, Taiwan, Turkey, the United States, and other countries. Students from the currently participating institutions can serve as early ambassadors who invite classmates, form campus-based interest groups, and connect their schools with ISSTA's global network.
- 5) it can help students develop leadership skills through committee roles, project coordination, academic writing, conference organization, public speaking, interdisciplinary teamwork, campus outreach, peer recruitment, and student-led working groups. This is particularly important because the first wave of participating students already shows that students can help shape the direction of ISSTA rather than only attend events passively.
- 6) it can encourage collaboration between students from different fields. Sleep health is one of the clearest examples of why medicine, dentistry, engineering, public health, social sciences, economics, and policy must not be separated. Sleep technology further integrates specialties among students globally. The airway, the brain, the cardiovascular system, the face, the jaw, the tongue, the sensor, the algorithm, the patient, the family, the workplace, the healthcare system, the payer, the policymaker, the military, the university, and the whole society are connected. The ISSTA Student Committee can become a platform where future physicians, dentists, engineers, public-health leaders, social scientists, economists, policymakers, military medical leaders,

neuroscientists, and innovators learn to work together from the beginning of their careers.

A Call to Students Worldwide

The future of healthcare will not be built by one specialty alone.

It will require physicians who understand technology, dentists who understand systemic health, engineers who understand clinical workflow, public-health professionals who understand economics, social scientists who understand human behavior and society, economists who understand incentives and healthcare financing, policy and political science students who understand governance and public decision-making, and students from all majors who are willing to cross boundaries early.

Sleep health is one of the most powerful fields through which this future can be built.

Through the ISSTA Student Committee, students from all majors worldwide are invited to participate in a new international movement. This movement is already beginning through the participation of students from medicine, military medicine, neuroscience, computer engineering, dentistry, and medical schools across the United States, Spain, and Taiwan. It aims to transform sleep medicine from a specialized clinical field into a global platform for preventive medicine, medical AI, dental sleep medicine, engineering innovation, public health, social impact, health economics, policy development, and scalable healthcare innovation.

Students who join this effort will not only learn about sleep. They will learn how to build systems, design technologies, conduct research, analyze populations, understand social behavior, evaluate economic impact, shape policy discussions, lead projects, collaborate internationally, and contribute to solutions that may improve population health and reduce avoidable healthcare costs. By participating early, student members can also help define what the next generation of sleep medicine and sleep technology should look like.

Under the leadership of Prof. Dr. med Rayleigh Chiang, ISSTA will continue to connect Europe, Asia, North and South America, starting from the United States, and other global partners. The Student Committee will play a critical role in this mission by cultivating the next generation of interdisciplinary leaders from medicine, dentistry, engineering, public health, social sciences, economics, policy and politics, data science, business, law, communication, and the life sciences. These students will understand that better sleep is not only a personal health goal, but also a foundation for better medicine, better dentistry, better technology, better public health, better policy, stronger economies, and better societies.

We warmly welcome students from all majors around the world - especially those from schools of engineering, public health, social sciences, economics, and policy or politics, together with medical, dental, neuroscience, data science, business, law, communication, and life science students - to join the ISSTA Student Committee and become part of this global transformation. The early participation of students from Drexel University College of Medicine, Uniformed Services University, the University of Florida, Universidad Europea de Madrid, China Medical University, and Taipei Medical University, together with faculty promotion from SHSU's College of Humanities and Social Sciences and College of Osteopathic Medicine, shows that this movement has already begun. ISSTA now invites more students globally to join, represent their schools, connect across countries, and help define the next generation of sleep medicine, sleep technology, medical AI, health economics, and policy.

Join Us

Please contact the founding student members, Albert or Cindy shown below to join as the ISSTA Student Committee.

The early participants will be free of charge of the student membership fee (<https://www.isstasleep.org/join-us>).

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Sincerely yours,

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