


NTSU GRADUATE INSTITUTE OF ATHLETICS AND COACHING SCIENCE PROFESSOR INTRODUCTION		
Name	Wen-Tzu Tang	
Now Position	<ol style="list-style-type: none"> <li>1. Dean, College of Athletics in National Taiwan Sport University</li> <li>2. Professor, Graduate Institute of Athletics and Coaching Science</li> <li>3. Director, Sport Biomechanics and Movement Diagnosis Laboratory</li> <li>4. Board member, Taiwan Institute of Sports Science, TISS</li> <li>5. President, Taiwan Sports Coach Association</li> <li>6. Board Directors, International Society of Biomechanics in Sports</li> <li>7. President-Emeritus, Taiwan Society of Biomechanics in Sports</li> <li>8. President-Emeritus, Asian Society of Sport Biomechanics</li> </ol>	
Education	<ol style="list-style-type: none"> <li>1. Ph D. in Kinesiology and Health Education, University of Texas at SAustin.</li> <li>2. M. Ed. in Kinesiology (Biomechanics), University of Texas at Austin</li> <li>3. M. S. in M. S. in Physical Oceanography (Physics division), National Taiwan University</li> <li>4. B. S. in Physics, Tung-Hai University, Taichung, Taiwan</li> </ol>	
Email	wttang@ntsu.edu.tw	
Phone/Fax	03-3283201#2212、2407、2505/ fax:03-3285461	
Import Experience	<ol style="list-style-type: none"> <li>1. Directors, International Society of Biomechanics in Sports (2024.07 – now)</li> <li>2. President, Taiwan Sports Coach Association (2023.12 – now)</li> <li>3. Dean, College of Athletics in National Taiwan Sport University (2023.08 – now)</li> <li>4. Director, Graduate institute of Athletics and Coaching Science (2021.09 – 2023.07)</li> <li>5. Dean, College of Exercise and Health Sciences in National Taiwan Sport University (2015.08 – 2021.07)</li> <li>6. Director, Sport Training and Science Center (2015.01 - 2015.07)</li> <li>7. Dean, Office of Research and Development in National Taiwan Sport University (2010.08 – 2013.07)</li> <li>8. Director, Graduate institute of Athletics and Coaching Science (2008.08 - 2011.07)</li> <li>9. Leader, Computer and Information Center in National Taiwan Sport University (2006.08 - 2008.07)</li> <li>10. Professor, National Taiwan Sport University (2009.08 - now)</li> <li>11. Associate Professor, National Taiwan Sport University (2006.08 - 2009.07)</li> <li>12. Assistant Professor, National Taiwan Sport University (2002.08 - 2006.07)</li> <li>13. Teaching Assistant: Computer Maintenance, Strength and Conditioning, Swimming, Triathlon, Thermodynamics, Quantum Chemistry, Sports Biomechanics in University of Texas at Austin. (1996-2001)</li> </ol>	

<b>Professional service experience (sports science, technology, training)</b>		
Date	International /Domestic	Project
2024/06	Domestic	National Smart Baseball and Softball Stadium Technology Forum - Sports Science Consultant
2019-2022	Domestic	National Sports Training Center Competitive Enhancement Committee - Member
2018-2020	Domestic	Asian Games in Jakarta and Tokyo Olympics Sports Science Group - Biomechanics Group Leader
2018-2020	Domestic	Training and Service Plan for Sports Professional Instructors at Colleges and Universities - Guidance Committee Member
2017	Domestic	Committee Member, Venue Construction Committee for the World University Games
2015-2016	Domestic	Rio Olympics Sports Science Support Group - Leader
2015-2016	Domestic	Rio Olympics Archery and Shooting Sports Science - Leader and Biomechanics Sports Science Committee Member
2015	Domestic	Ministry of Education Sports Administration Sports Coach Talent Training Project Group - Member
2014	Domestic	Incheon Asian Games - Sports Talent Training Support Group and Sports Science Committee Member
2014-2015	Domestic	National University Sports Games Support Group - Member
2013 2017	Domestic	Universiade Northern Taiwan Sports Training Base Sports Talent Development Program - Sports Science Committee Member
2011	Domestic	Sports and 3Q International Symposium Organizing Committee - Member
2010	Domestic	National University Sports Games Executive Committee - Support Committee Member
2010-2012	Domestic	Executive Yuan Sports Committee "Creating a Sports Island Project"- Committee Member
2009-2010	International	15th and 16th Nantou International and National Middle and High School Indoor Pole Vault Competition - Advisor
2009	Domestic	8th World Games in Kaohsiung Sports Science Group - Member
2008	International	Executive Yuan Sports Affairs Council Beijing Olympics - Working Group
2008	International	Chinese Taipei Archery Association Third Archery Grand Prix Inspection - Representative
2008	Domestic	Executive Yuan Sports Affairs Council Beijing Olympics Golden Plan Archery - Sports Science Committee Member, Leader
2008	Domestic	Executive Yuan Sports Affairs Council Challenge Golden Plan Sports Science Committee - Member
2006	International	Domestic   Doha Asian Games Training Support and Sports Science Committee Inspection Group Sports Science Committee Member
	International	International Sports Federation - National Representative [FÉDÉRATION INTERNATIONALE D'ÉDUCATION PHYSIQUE]
	Domestic	Chinese Taipei Olympic Committee Sports Elite Talent Program - Project Leader
	Domestic	Chinese Taipei University Sports Federation Golf Committee 6th and 7th Golf Committee - Member
	Domestic	16th Nantou International and 15th National Middle and High School Indoor Pole Vault Competition - Event Advisor
2004	Domestic	Athens Olympics Medalist Zhu Muyan Support Group - Leader

Professional Service Experience (Academic Committee Member)		
Date	International /Domestic	Project
2023/10	Domestic	Expert Scholar, Health Promotion Administration, Ministry of Health and Welfare, "Expert Meeting on Sports Technology Application and Industry Development Project Management Plan"
2023/05	Domestic	Expert Scholar, Digital Industry Agency, "New Modern Pentathlon Expert Meeting Symposium"
2021-2022	Domestic	Editorial Committee Member, "Journal of Sports" by the Chinese Taipei University Sports Federation
2019-2021	Domestic	President, 9th Term, Taiwan Society of Biomechanics in Sports
2020	Domestic	Preparation/Editorial Committee Member, 15th National Sports Science Conference and Academic Symposium
2016-2018	International	Board of Directors, International Society of Biomechanics in Sports
2015-2017	Domestic	Executive Director, 7th Term, Taiwan Society of Biomechanics in Sports
2014-2015	Domestic	Member, Human Trials Committee, Taipei Veterans General Hospital
2013-2016	Domestic	Member, Quarterly Editorial Committee, Chinese Taipei Swimming Association
2013	International	International Sports Biomechanics Symposium in Taiwan, Session Chair
2013	Domestic	Degree Examination Committee Member, Department of Biomedical Engineering, National Yang-Ming University
2011-2012	Domestic	Member, Human Trials Committee
2010	Domestic	Member, Self-evaluation Committee for the Ministry of Education's College Sports Project Evaluation, Yu Da University of Science and Technology
2009	Domestic	Evaluation Committee Member, Graduate Institute of Sports Equipment Technology, University of Taipei
2007	Domestic	Preparation Committee Member, International Sports Biomechanics Symposium and Taiwan Biomechanics Annual Conference
	International	Editorial Board Member, The Asian Journal of Kinesiology
	International	Reviewer, Sports Biomechanics Journal
	International	President, Asian Society of Biomechanics in Sports
	International	Executive Director, 5th Term, Taiwan Society of Biomechanics in Sports
	Domestic	Section Convener, Biomechanics Field, Journal of National Taiwan University of Physical Education and Sport
	Domestic	Scientific Advisor, Sports Science Investigation Series, CTS
	Domestic	Director, Taiwan Society of Biomechanics in Sports

<b>Professional Service Experience (On-campus)</b>	
Date	Project
2020-2021	Member, Off-Campus Internship Guidance Committee, 109th Academic Year
2020-2021	Member, Faculty Review Committee, 109th Academic Year
2020-2021	Representative, University Affairs Council, 109th Academic Year
2019-2020	Class Advisor, PhD Program, 108th Academic Year
2019-2020	Chief Advisor, 108th Academic Year
2019-2020	Chief Advisor, College of Health Sciences, 108th Academic Year
2019-2020	Member, Information Development and Security Committee, 108th Academic Year
2019-2020	Member, Honorary Doctorate Degree Review Committee, 108th Academic Year
2018-2019	Member, Honorary Doctorate Degree Review Committee, 107th Academic Year
2018-2019	Member, Information Development and Security Committee, 107th Academic Year
2018-2019	Member, Special Education Promotion Committee, 107th Academic Year
2018-2019	Member, Traffic Safety Promotion and Education Committee, 107th Academic Year
2018-2019	Representative of the Employer Side, Third Labor-Management Meeting, 107th Academic Year
2018-2019	Class Advisor, 107th Academic Year
2018-2019	Chief Advisor, 107th Academic Year
2018	Member, Flexible Salary Review Committee, 107th Year
2018-2019	Teaching Excellence Award, National Taiwan University of Physical Education and Sport, 107th Academic Year
2018-2019	Reviewer, Deep Cultivation Plan for Higher Education, College of Sports Health Science, 107th-108th Academic Year
2018-2019	Member, Sports Museum Management Committee and Exhibition Consulting Group, Collection Review and Management Group, 107th-108th Academic Year
2017-2018	Member, Special Education Promotion Committee, 106th Academic Year
2017-2018	Member, Curriculum Committee, 106th Academic Year
2017-2018	Member, Information Development and Security Committee, 106th Academic Year
2017-2018	Member, Faculty Review Committee, 106th Academic Year
2017-2018	Member, Research Personnel Review Group, Research and Development Office, 106th Academic Year
2016-2017	Elected Representative, College Affairs Council, 105th Academic Year
2016-2017	Member, College Faculty Review Committee, 105th Academic Year
2016-2017	Representative, University Affairs Council, 105th Academic Year
2016-2017	Member, Admissions Committee, 105th Academic Year
2016-2017	Chief Advisor, 105th Academic Year
2016-2017	Member, University Development Committee, 105th Academic Year
2016-2017	Member, Research Personnel Review Group, Research and Development Office, 105th Academic Year
2016-2017	Member, Faculty Review Committee, 105th Academic Year
2015-2016	Member, Research Personnel Review Group, Research and Development Office, 104th Academic Year
2015-2016	Member, Faculty Review Committee, 104th Academic Year
2015-2016	Representative, University Affairs Council, 104th Academic Year
2015-2016	Member, Information Development and Security Committee, 104th Academic Year
2015-2016	Member, College of Competitive Sports Faculty Review Committee, 104th Academic Year
2015-2016	Representative, College Affairs Council, College of Competitive Sports, 104th Academic Year
2014-2015	Member, Special Education Promotion Committee, 103rd Academic Year
2014-2015	Member, Student Appeal Review Committee, 103rd Academic Year
2014-2015	Representative, University Affairs Council, 103rd Academic Year

2014-2015	Member, Faculty Review Committee, 103rd Academic Year
2014-2015	Representative, College Affairs Council, College of Competitive Sports, 103rd Academic Year
2013-2014	Member, Faculty Review Committee, 102nd Academic Year
2012-2013	Guidance Plan for the Regional Sports Science Research Center, 101st Year
2011-2012	Member, Space Allocation and Usage Management Working Group, 100th Academic Year
2011-2012	Representative, University Affairs Council, 100th Academic Year
2011-2012	Faculty Representative, College Affairs Council, College of Competitive Sports, 100th Academic Year
2011-2012	Executive Secretary and Guiding Committee Member, University Self-Evaluation for University Affairs Evaluation, 100th Year
2010-2012	Member, "Innovation Incubation Center Advisory Promotion Committee," 99th-100th Academic Year
2010-2012	Member, University Fund Management Committee, 99th-100th Academic Year
2010-2011	Member, University Development Planning Working Group, 99th Academic Year
2010-2013	Director, Research and Development Office, 99th-101st Academic Year
2010-2011	Member, Gender Equality Education Committee, 99th Academic Year
2010-2011	Public Official Performance Appraisal Committee, 99th Academic Year
2010-2011	Member, "Innovation Incubation Center Advisory Promotion Committee," 99th Year
2009-2010	Representative, University Affairs Council, 98th Academic Year
2009-2010	Advisor, Coaches Research Institute Association, 98th Academic Year
2009-2012	Member, University Development Committee, 98th-100th Academic Year
2009-2013	Member, Admissions Committee, 98th-101st Academic Year
2009-2012	Appointment Committee Member, Faculty Review Committee, 98th-100th Academic Year
2009-2010	Member, Honorary Doctorate Degree Review Committee, 98th Academic Year
2008-2010	Member, Budget Audit Committee, 97th-98th Academic Year
2009-2011	Member, Information Development and Security Committee, 98th-99th Academic Year
2008-2010	Member, Traffic Management Committee, 97th-98th Academic Year

<b>Invited speech</b>		
Date	International /Domestic	Project
2024/12	International	The 10th Asian Society of Biomechanics in Sports (ASBS) Conference Session Chair
2024/11	International	ICSES 2024 The 12th International Conference on Sports and Exercise Science Speaker 「The Influence of Functional Movement Efficiency of Sport」
2024/11	International	ICSES 2024 The 12th International Conference on Sports and Exercise Science KEYNOTE Speaker 「Diagnosis for Olympic Athletes for Speed and Accuracy Performance」
2024/07	Domestic	Interviewee in Health Magazine AI Accompanies You to Smart Health - Strong Muscle Strength Relying on AI Coaches
2024/07	International	IACSS at Paris 2024 Olympic Games Sport Informatics in support of Olympic and Paralympic Sports CHAIR
2024/07	International	2024 Paris Olympic Games Sport Informatics Symposium in Support of Olympic and Paralympic Athletes Lecture Scholar for 「Biomechanics in Support of Olympic Athletes in Taiwan」
2024/06	Domestic	National Sports Quarterly 「Preparation and Vision for Paris Olympics 2024」 Jun. 2024 Editor-in-chief
2024/04	Domestic	Lecturer at the Level A Coach Training Workshop of the Chinese Taipei Mountaineering Association
2024/03	Domestic	Lecturer at the Level A Coach Training Workshop of the Chinese Taipei Gymnastics Association
2023/11	International	2023 11th International Conference on Sport Sciences Research and Technology Support (icSPORTS 2023) CHAIR
2023/10	Domestic	Host of the 2023 Taiwan Sports Biomechanics Annual Meeting and Smart Technology and Sports Science Seminar
2023/10	Domestic	Invited Speaker for the 'Sports Elite Talent Development Program' at the Management College of National Defense University
2023/08	Domestic	Lecturer for Sports Biomechanics at the 2023 Chinese Taipei Mountaineering Association Training Workshop
2023/08	Domestic	Lecturer at the Level A Coach Training Workshop and Elite Coach Training Workshop of the Chinese Taipei Tennis Association
2023/07	International	2023 International Society of Biomechanics in Sports Conference Lecture Scholar for 「Global Perspective on Challenges Faced by Women in Biomechanics」
2023/07	International	Host of the 2023 European College of Sport Science Annual Congress (ECSS)
2023/07	Domestic	Lecturer for the 2023 Taoyuan City Competitive Sports Science Assistance and Protection Support Program
2022/09	Domestic	Speaker on Sports Biomechanics at the 2022 Chinese Taipei Golf Association Level C Coach Workshop
2022/07	Domestic	Speaker on Sports Biomechanics at the 2022 Chinese Taipei Fencing Association Level A Coach Workshop
2020/12	Domestic	Speaker at the Taiwan Sports Medicine Society Annual Conference
2018/12	Domestic	Lecturer at the National Sports Training Center Jakarta-Palembang Asian Games Sports Science Seminar

2018/12	Domestic	Lecturer at Tunghai University on "The Application of Physics in Sport Performance Diagnostics
2018/05	Domestic	Lecturer at Tunghai University Physical Education Academic Lecture - "Sports Changed My Life
2018/05	Domestic	Lecturer at the Taoyuan Session of the Taiwan Sports Physical Therapy Association Sports Protection Talent Enhancement Program Workshop
2017	Domestic	Lecturer at the Cross-Strait Sports Science and Sports Medicine Seminar of the Chinese Olympic Committee
2017	Domestic	Discussant at the Taiwan Society of Biomechanics in Sports Seminar at the National Pingtung University Pingshang Campus
2017/05	Domestic	Guest Speaker on "The Data Treasure of Sports Science" at the Department of Computer Science and Engineering, National Taiwan Ocean University
2016	Domestic	Lecturer for the 2015-2016 Teaching Excellence Project - Change Campus Mobility Habits from Daily Exercise
2016/12	Domestic	Lecturer at the Taiwan Sports Biomechanics Seminar and Annual Meeting of the Taiwan Society of Biomechanics
2016/11	Domestic	Host of the National Taiwan Sport University Sports Biomechanics Community
2016/10	Domestic	Presenter at the Office of Taiwan Science Communication Development Project 2016 Science Communication Seminar Results Presentation: 'Experience Sharing on International Collaboration in Science Film Production'
2016/08	Domestic	Lecturer for Subproject Two of the 'Training Potential Athletes for the 2020 Tokyo Olympics: Taekwondo' Program at National Dong Hwa University: 2016 Coach Empowerment Workshop
2016/07	International	World Archery Asia 2016 WAA Coach and Technical Seminar & Workshop Lecturer
2016/06	Domestic	Host of the 2016 Taoyuan City International Fitness Training and Sports Injury Prevention Seminar
2016/05	Domestic	Course Lecturer for the 'Sports Biomechanics Workshop' at National Taiwan University of Sport
2015/04	Domestic	Lecturer on Sports Mechanics at the National Taiwan Sport University Taoyuan Mayor's Cup National Children's Triathlon Pre-Competition Capacity Enhancement Workshop
2014/11	Domestic	Lecturer on Sports and Technology Monitoring Applications at the University Sports Federation 'Cross-Strait Sports Full-Time Coaches Annual Training Workshop'
2014/10	Domestic	Lecturer on Golf Applied Biomechanics at the 2014 Chinese Taipei Golf Association Level B Coach Workshop
2014/07	International	World Archery Asia 2014 WAA Coach and Technical Seminar & Workshop Lecturer
2014/03	Domestic	Speaker on Archery Sports Science and Sports Medicine at Lihsin Hospital
2013/10	Domestic	Guest Speaker on Applications of Sports Science as a Visiting Scholar at UC Berkeley
2013/08	Domestic	Lecturer at the 2013 Chinese Taipei Golf Association Level A Coach Workshop
2013/07	Domestic	Lecturer at the 2013 Chinese Taipei Golf Association Level C Coach Workshop
2012/12	Domestic	Speaker at the 2012 Chinese Taipei Sports Information Association Annual Meeting and Academic Forum
2012/12	Domestic	Guest Speaker on Golf at Tamkang University
2012/09	International	Keynote Speaker at the 25th Conference of Golf Science in Japan
2012/07-08	Domestic	Lecturer at the '2012 Career Development Camp for High School Baseball Players' by the Sports Administration, Ministry of Education

2012/06-09	Domestic	Host and Planning Committee Member of the National Taiwan Sport University 'International Sports Coaching Science Seminar'
2012/06	Domestic	Lecturer at the Asian Archery Federation Coaches and Technical Seminar
2012/05	Domestic	Lecturer on Basic Golf Sports Biomechanics at the 2012 Chinese Taipei Golf Association Level C Coach Workshop
2012/02	Domestic	Experience Sharing Speaker at the National Taiwan Sport University Sea Plan Explanation Session
2012	Domestic	Host and Planning Committee Member of the International Sports Coaching Science Seminar
2011/10	Domestic	Lecturer at the 2011 Asian Games and Olympic Sports Competition Domestic Coaches Workshop
2011/09	Domestic	Lecturer at the 18th Basic and Intermediate Swimming Coaches Workshop of the Chinese Taipei Lifesaving Society
2011/01	Domestic	Special Lecture at the Department of Physics, National Chung Hsing University
2010/12	Domestic	Special Lecture at the Department of Sports Medicine, China Medical University
2010/12	Domestic	Keynote Speaker at the 2010 Sports and Health Management Academic Seminar
2010/10	Domestic	Session Chair at the Joint Annual Meeting and Academic Seminar of the Taiwan Society of Biomechanics and the Taiwan Sports Biomechanics Society
2010/10	Domestic	Session Host at the 2010 National Science Council Humanities Department Sports Science Special Research Project Results Presentation
2010/08	Domestic	Lecturer at the 2010 Level B Judo Coaches Workshop
2010/06	Domestic	Speaker at the Hsinchu University of Education Perceptual Motor Learning Community Lecture
2009/11	International	Host of the Asia-Pacific International Sports Biomechanics Seminar and Taiwan Sports Biomechanics Annual Meeting
2009/10	Domestic	Lecturer at the 2009 National Level Judo Coaches Workshop
2009/08	International	Lecturer at the 2009 American Austrian Foundation Coaching and Technique Seminar
2009/05	Domestic	Host of the School Sports Coaching Science Academic Seminar Special Lecture
2009/04	Domestic	Speaker at the 2009 Sports Science and Sports Performance Enhancement Symposium
2009/02	Domestic	Lecturer at the 2009 Chinese Athletics Association Winter Youth Pole Vault Training Camp
2009	Domestic	Keynote Speaker at the 2009 Sports Science Research and Thesis Writing Workshop
2008/12	Domestic	Lecturer at the Chinese Taipei Olympic Committee '2009 World Games and Deaflympics Elite Coaches Specific Physical Training Workshop'
2008/09	Domestic	Lecturer at the Chinese Taipei Olympic Committee 'Domestic Training for Excellent Coaches' Workshop
2008/08	Domestic	Lecturer at the 2008 Chinese Taipei Taekwondo Association Level B Coach Workshop
2007/11	Domestic	Host of the Taiwan Society of Biomechanics International Sports Biomechanics Seminar and Taiwan Sports Biomechanics Annual Meeting Special Lecture
2007/08	Domestic	Lecturer at the 2007 Chinese Taipei Boxing Association Level A and B Coach Workshop
2007/06	Domestic	Teacher at the Asian Archery Coaches Seminar and Workshop
2007/06	Domestic	Teacher at the National Sports and Exercise Science Development Lecture

<b>Honor &amp; Awards</b>	
<b>Date</b>	<b>Awards</b>
2025	Recipient of the 114th Ministry of Sports Science Research and Development Award – Merit Award
2025	114th National Physical Education University Teacher Academic Research Award
2025	Recipient of the 114th Appointed as a Distinguished Professor of National Sports University
2025	Recipient of the 114th Commissioned Project by Private Enterprises/Organizations
2025	114th National Sports University Industry-Academic Cooperation Award
2024	113th National Sports University Industry-Academic Cooperation Award
2024	113th National Physical Education University Teacher Academic Research Award
2024	Awarded the First-Class Prize in Teaching Category for the Flexible Salary Approval by the Ministry of Education
2023	Recipient of the 112th National Science and Technology Council Outstanding Research Talent Award
2023	Recipient of the 112th National Taiwan Sport University Academic Research Award
2023	Recipient of the 112th National Taiwan Sport University Flexible Salary - First Level in Teaching Category
2022	Recipient of the 111th National Taiwan Sport University Flexible Salary - First Level in Teaching Category
2022	Recipient of the 111th National Taiwan Sport University Industry-Academia Collaboration Award for Private Sector Projects - First Place
2022	Recipient of the 111th National Taiwan Sport University Academic Research Award
2019	Recipient of the 108th National Taiwan Sport University Outstanding Teaching Award
2015	Silver Medal at the Taipei International Invention and Technology Trade Show and Invention Competition
2015/11	Recipient of the 104th National Taiwan Sport University Academic Research Award
2015/09	Recipient of the 104th National Taiwan Sport University Industry-Academia Collaboration Award
2014/09	Recipient of the 103rd National Taiwan Sport University Industry-Academia Collaboration Award
2012-2013	Recipient of the National Science and Technology Council Award for Special Outstanding Talent
2013/11	Recipient of the 102nd National Taiwan Sport University Industry-Academia Collaboration Award
2012/11	Recipient of the 101st National Taiwan Sport University Academic Research Award
2011-2012	Recipient of the National Science and Technology Council Award for Special Outstanding Talent
2010-2011	Recipient of the National Science and Technology Council Award for Special Outstanding Talent
2009	Recipient of the Taiwan Society of Sports Biomechanics Annual Conference Outstanding Paper Award - Analysis of Wrist Movements and Grip Pressure in Excellent Golf Putters
2009	Recipient of the Annual Conference of Physical Education and Sports Academic Groups Outstanding Paper Award - Kinematic Characteristics of Pivot Foot in Excellent Baseball Pitchers with Different Stride Patterns
2008-2009	Recipient of the 97th National Taiwan University of Sport Academic Research Award
2007	Recipient of the Asian Archery Coaches Seminar Poster Presentation Award - Motion Analysis of Bow Hand and Drawing Hand during Arrow Release
2005	Recipient of the Excellent Advisor Award at National Taiwan Sport University
2003	Invited Presentation at the International Society of Biomechanics Conference

2003	Recipient of the Taiwan Society of Biomechanics Award - Isokinetic Strength Characteristics in Elite Female Collegiate Golfers
2001	Recipient of the International Society of Biomechanics Award - Analysis of Golf Swing Optimization Models

<b>Advising for students awards</b>	
<b>Date</b>	<b>Project</b>
2024/09	Awarded the 2024 Ministry of Education Sports Administration Award for Excellence in Sports Science Research and Development. Lin, Z. J., Peng, Y. C., Yang, C. J., Hsu, C. Y., Hamill, J., & Tang, W. T. <b>【Lower Limb Biomechanics during the Golf Downswing in Individuals with and without a History of Knee Joint Injury.】</b>
2023/08	Awarded the International Society of Biomechanics in Sports “Student Travel Awards”. Kao C. Y. <b>【LOWER LIMB STABILIZATION STRATEGIES OF DART ATHLETES AT DIFFERENT LEVELS.】</b>
2023/08	Awarded the International Society of Biomechanics in Sports “Student Travel Awards”. Kao C. W. <b>【GROUND REACTION FORCES OF DART-THROWING AT DIFFERENT TARGET HEIGHTS.】</b>
2023/12	Awarded the 2023 Ministry of Education Sports Administration Award for Excellence in Sports Science Research and Development. Tai, M. L., Yang, C. J., Tang, W. T., Elliott, B., & Chang, K. L. <b>【Upper Extremity Muscle Activation during Drive Volley and Groundstroke for Two-Handed Backhand of Female Tennis Players.】</b>
2018/09	Awarded the International Society of Biomechanics in Sports “Student Travel Awards”. Huang, T. Y. <b>【Kinematics analysis of taekwondo’s relationship between roundhouse kick velocity and electronic body protector.】</b>
2018/09	Awarded the International Society of Biomechanics in Sports “Student Travel Awards”. Tai, M. L. <b>【Kinematics analysis of the lower extremity during the two-handed backhand groundstroke and drive volley for tennis player.】</b>
2021/12	Awarded the 2021 Ministry of Education Sports Administration Award for Excellence in Sports Science Research and Development. Yang, C. J., Tai, M. L., Hu, C. M., Hamill, J., & Tang, W. T. <b>【Effect of stance width on posture stability of golfers putting under windy conditions.】</b>
2010	Awarded the 2010 Executive Yuan Sports Committee Award for Excellence in Sports Science Research and Development. Cheng, C. L., Kwan, M., Tang, W. T., & Rasmussen, J. <b>【Measurement of Badminton Racket Deflection during a Stroke.】</b>
2006/12	Awarded the 2006 Executive Yuan Sports Committee Award for Excellence in Sports Science Research and Development. Huang, Y. M., Tang W. T., & Liao, J. N. <b>【Fatigue Characteristics of Shoulder Girdle Muscles of Pulling Arm in a 2005 Gold-medal Archer during a Long Practice Session.】</b>
2006/12	Awarded the 2006 Executive Yuan Sports Committee Award for Excellence in Sports Science Research and Development. Hsu, M. C., Chen, M. Y., Tang, W. T., Lo, H. Y., & Lin, C. H. <b>【Effect of Gui Zhi Long Gu Mu Li Tang on Physiological and Psychological Responses under Psychological Stress.】</b>
2011/12	Awarded the 2011 Executive Yuan Sports Committee Award for Excellence in Sports Science Research and Development. Yang, C. J.,

	Guo, Y. H., Sung, T. H., & Tang, W. T. 【Effect of Putter Grip Size on Putting Performance and Grip Pressure.】
2011/12	Awarded the 2011 Executive Yuan Sports Committee Award for Excellence in Sports Science Research and Development. Chen, S. W., Hong, T. Y., KUNG, J. T., & Tang, W. T. 【Effect of Stride Pattern on Pivot Leg Mechanics in Elite Baseball Pitchers.】
2010	Awarded the 2010 Executive Yuan Sports Committee Award for Excellence in Sports Science Research and Development. Chen, K. H., Tang, W. T., & Kao, M. F. 【Kinematic Analysis of 360-degree Pommel Horse Single Arm Support Movement.】

<b>Patent</b>	
Date	Project
2025.01.01 – 2034.09.26	Improvement of a Composite Pitching Device
2013.09.11 – 2022.12.09	INTELLIGENT WATER LIFESAVING DEVICE
2013.04.21 – 2022.12.02	GOLF HEAD WITH A STICKER FOR RECOGNIZING SWEET SPOT
2012.12.01 – 2022.07.09	TENNIS TRAINER
2012.12.01 – 2022.07.09	Clothing for high-jump training
2012.12.01 – 2022.07.09	Pitching acceleration training device
2012.12.01 – 2022.07.09	Rhythm accelerating training equipment
2012.12.01 – 2022.07.09	PLUMED TENNIS TRAINER
2011.07.01 – 2020.12.30	ROCK CLIMBING DEVICE
2009.04.21 – 2018.11.05	Vibration detector
<b>Invention</b>	
Date	Project
2011.05.01 – 2026.06.26	A REAL-TIME RECORDING AND ASSESSMENT SYSTEM FOR ARCHERY STABILITY
2012.07.01	FOSBURY FLOP HIGH JUMP TRAINING DEVICE
2010.03.16	Athlete feedback diagnostic system
2008.01.01	A REAL-TIME SHOOTING RECORDING AND ANALYZING SYSTEM
<b>Sport Science film</b>	
Channel	Project
Discovery Channel	Taiwan Sport - The Spirit of Taiwan: Table Tennis
National Geographic Channel	Inside Look: Sports Science - See how sports science helps these elite athletes become the strongest support for their competitive challenges; not only preventing injuries and understanding themselves but also breaking limits.
PTS	Sports Science Film Series - Breakdancing
TTV	The Science of Archery - Scientific Assistance to Enhance Athletes' Skills
CTS	The Science of Martial Arts and Dance (Science Producer)
TITV	Science Little Atom 77 - Baseball
CTS	Sports Science Investigation (Science Producer)
National Science and Technology Council	The Science Exploration Hall - The Dance of Lightness: The Science of Tai Chi and Lightness Skills
<b>book</b>	
Title	Authors
Sports Biomechanics. Taipei: Wagner Enterprises.	Lin, B. C., Ho, W. H., Lin, H. T., Tang, W. T., Chiang, C. Y., Hong, D. M., & Tsai, C. L. (2008)

Research Publications		
	Title	Science Council Rating
1	Yu, H. P., Tang, W. T., Rasmussen, J., Cheng, H. W., & Huang, T. Y. (2025). Kinematic differences in smash techniques between elite singles and doubles badminton players: Upper/lower trunk and upper limb analysis. <i>International Journal of Sports Science &amp; Coaching</i> , 17479541251395168. <a href="https://doi.org/10.1177/17479541251395168">https://doi.org/10.1177/17479541251395168</a> ()	SCI
2	Liao, Y. M., Yang, H., Hamill, J., & Tang, W. T. (2025). Trigger force and pistol motion of air pistol shooters of different skill levels. <i>Journal of sports sciences</i> , 1–13. Advance online publication.	SCI
3	Chang, K. L., Tang, W. T., Tai, M. L., Knudson, D. V., & Huang, T. Y. (2025). Influence of lower limb asymmetry on the two-handed backhand stroke in female tennis players. <i>Sports Biomechanics</i> , 1–17. <a href="https://doi.org/10.1080/14763141.2025.2511762">https://doi.org/10.1080/14763141.2025.2511762</a>	SCI
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111	Chang, W. Y., & Tang, W. T. (2006). Analysis on basic shooting techniques and training of air pistol. <i>Sports Research Review</i> . 85, 46-51.	
112	Tang, W. T. (2006). Application of biomechanics in competitive sports. <i>National Sports Quarterly</i> . 34(3), 53-59.	
113	Tang, W. T. (2006). Introduction to Sports Science Center in Canberra, Australia. <i>National Sports Quarterly</i> . 35(2), 64-71.	
114	Huang, Y. M., Chan, C. N., & Tang, W. T. (2006). Discussion on the assessment of autonomous activation degree and its influencing factors. <i>Quarterly of Chinese Physical Education</i> . 20(4), 27-31.	TSSCI
115	Tang, W. T., & Shou, H. (2005). Relationship between isokinetic strength and shooting accuracy at different shooting ranges in Taiwanese elite high school basketball players. <i>Isokinetics and Exercise Science</i> , 13, 169-174.	SCI
116	Chang, W. Y., & Tang, W. T. (2005). Analysis on firing techniques of pistol shooting. <i>Sports Research Review</i> . 81, 186-190.	
117	Yang, C. Y., & Tang, W. T. (2005). The Characteristics of the Isokinetic Muscle Strengths of the Elite College Female Golf Players. <i>Sports &amp; Exercise Research</i> . 7(1), 201-208.	TSSCI

118	Yang, C. Y., & Tang, W. T. (2005). The Correlation between the Club Head Speed and the Isokinetic Muscle Strength of Upper Limbs in the Elite Female College Golf Players. <i>Sports &amp; Exercise Research</i> . 7(1), 191-199.	TSSCI
119	Wang, S. T., Tang, W. T., Wang, S. Y., & Huang, C. F. (2004). Muscle Coordination Patterns During Tennis Double-handed Backhand Strokes: A Case Study. <i>Physical Education Journal</i> . 36, 85-94.	TSSCI
120	Chen, C. M., & Tang, W. T. (2004). Relationship between the Pitching Speed and Isokinetic Strengths for Taiwan Elite Adult Male Pitchers. <i>Sports Research Review</i> . 75, 61-67.	
121	Chiu, H. Y., & Tang, W. T. (2003). The relationship between ancient broadsword skills and modern spear skills on the battlefield. <i>Sports Research Review</i> . 66, 51-56.	
122	Tang, T. Y., & Tang, W. T. (1994). Current on the Edge of the Continental Shelf Northeast of Taiwan . <i>Terrestrial, Atmospheric and Oceanic Sciences</i> . 5(2), 335-348.	

<b>International Conference Publications</b>		
	<b>Title</b>	<b>Conference</b>
1	Liao, Y. Z., Cheng, S. C., & Tang, W. T. (2025, November 4). DIFFERENCES IN TRUNK AND HIP ISOKINETIC STRENGTH PERFORMANCE AMONG CHEERLEADERS WITH VARYING SOMERSAULT TECHNICAL LEVELS [Oral presentation]. International Society of Biomechanics in Sports Conference 2025, Doha, Qatar.	Doha, Qatar. Qatar University
2	Kuo, Y. C., Chen, K. K., & Tang, W. T. (2025, July 1–4). An investigation of upper limb electromyographic performance in backhand drives among male badminton players of different skill levels. Paper presented at the 30th Annual ECSS Congress, Rimini, Italy. National Taiwan Sport University.	The 30th Annual ongress of the European College of Sport Science
3	Yu-Hsiu Yen, Wen-Tzu Tang. Lower-Limb Kinematic Differences Between Four-Seam Fastballs and Changeupsin Collegiate Baseball Pitchers:An OpenSim Analysis. AACS - 2025 Asia Association of Coaching Science Conference	2025 Asia Association of Coaching Science Conference
4	Liu, C. C., Tang W. T. (2025).Technical Differences in CMJ Performance Across Different Sport Specializations AACS 2025 Conference.	2025 Asia Association of Coaching Science Conference
5	Chen, KK., & Tang, WT. (2025, July). How spinal sagittal balance affect forward head posture [Oral presentation]. 2025 Asian Society of Coaching Science Conference – Application of Sport Technology, Taoyuan, Taiwan.	2025 Asia Association of Coaching Science Conference
6	Chang, Wee-Loon, Wen-Tzu Tang. A Comparison and Characteristics Between Male Elite Badminton Singles and Doubles Players in FMS Tests. AACS 2025 Conference.	2025 Asia Association of Coaching Science Conference
7	Yang-Ming Liao, Hsin Yang, Chiu-Yen Chen, Wen-Tzu Tang.(2025). Correlations between Grip Strength and Trigger Pull Force Characteristics in Air Pistol Shooting.AACS - 2025 Asia Association of Coaching Science Conference	2025 Asia Association of Coaching Science Conference
8	Harry Driscoll, Wen-Tzu Tang. Dynamic Simulation of Trunk Muscle Function During Vertical Jumping. AACS 2025 Conference.	2025 Asia Association of Coaching Science Conference
9	Lin, T.-L., & Tang, W.-T. (2025, June 7). Comparing functional movement differences between sedentary and standing office workers [Poster presentation]. Asia Association of Coaching Science Conference – Applied Sports Technology, Guishan District, Taiwan.	2025 Asia Association of Coaching Science Conference
10	Li Hsiang, Tang W. T. (2025) Can Acute Eccentric-Overload Squats Adjust Phase-Specific Activation of Key Muscles in the CMJ? AACS 2025 Conference.	2025 Asia Association of Coaching Science Conference
11	Wu C. E., Tang W. T., Chang C. B., Lee H. H. The Correlation Between Footwork and Rankings in Different Levels Male Singles Badminton Players. AACS 2025 Conference.	2025 Asia Association of Coaching Science Conference
12	Sung M. J., Li K. L., Huang T. Y., Tang W. T. (2025). Upper Limb Kinematic Analysis of Badminton Clear Strokes in Experienced and Novice Players. AACS 2025 Conference.	2025 Asia Association of Coaching Science Conference

13	Chang Y.C., Liu C.S., Tang W.T. (2025). Analysis of Difference Movement of Trunk and Pelvis before Taking Off from the Jump Lotus Kick with a 540-degree Turn Followed by a Horse Stance and Turning Jump with a 540-degree Turn Followed by a Horse Stance. AACCS - 2025 Asia Association of Coaching Science Conference	2025 Asia Association of Coaching Science Conference
14	Li K. L., Sung M. J., Huang T. Y., Lee Y., Lee N. H., Tang W. T. (2025). Kinematic Analysis of the Clear Shot in Elite Paralympic Badminton Athletes : A Case Study. AACCS – ICITS 2025 Conference.	2025 Asia Association of Coaching Science Conference
15	Chen K, K., Yen Y. H., Huang T. Y., & Tang W. T. (2024). ACUTE EFFECTS OF DIFFERENT DURATION OF MASSAGE GUN TREATMENT ON GASTROCNEMIUS MUSCLE PERFORMANCE. ASSB - ICITS 2024 Conference.	The 10th Asian Society of Sport Biomechanics
16	Yu H. P., Huang T. Y., Yin I. F., Tang W. T. (2024). Effects of Racket Weight on Swing Performance of double players in Badminton. ASSB - ICITS 2024 Conference.	The 10th Asian Society of Sport Biomechanics
17	Liu, C.-S., Zhang, Y.-C., & Tang, W.-T. (2024). Technical and tactical of winner and non-winner of elite male Sanda athletes. ASSB - ICITS 2024 Conference.	3rd International Conference on Innovation & Technology in Sports (ICITS) and the 10th Asian Society of Sports Biomechanics Conference (ASSB).
18	Tang W. T. (2023). Evaluating the Impact of Mouse Curvature Design on Hand Ergonomics and Comfort in E-sport Players through EMG and 3D kinematics measurement methods. 12th International Conference on Sport Sciences Research and Technology Support. Poster. 16-17th November. Italy.	12th International Conference on Sport Sciences Research and Technology Support.
19	Lin W. H., Chen S. W., Kung J. T., & Tang W. T. (2023). The Joint Angle Difference of Pivot Leg and Lead Leg in Baseball Fielder Throwing Movement with Different FMS Squat Score. The 9th Asian Society of Sport Biomechanics. (e-poster). 28th-1st September. Bangkok, Thailand.	The 9th Asian Society of Sport Biomechanics
20	Hsu C. Y., & Tang W. T. (2023). The difference of hip joint static geometry between male and female in elite golf athletes. The 9th Asian Society of Sport Biomechanics. (e-poster). 28th-1st September. Bangkok, Thailand.	The 9th Asian Society of Sport Biomechanics
21	Tung L., Tang W. T., & Lin Z. J. (2023). Investigating Factors Influencing E-Sport Mouse Shape Design for Enhanced Accuracy. The 9th Asian Society of Sport Biomechanics. (e-poster). 28th-1st September. Bangkok, Thailand.	The 9th Asian Society of Sport Biomechanics
22	Tang W. T., Tung L., & Chang J.B. (2023). The FMS profile with training intensity for tennis players of college team and high school team. 2023 European College of Sport Science. (e-poster). 5-7th July. Paris France.	2023 European College of Sport Science
23	Lin Z. J., Chang J. B., Tang W. T., & Chang K. L. (2023). The Influence of Court Surfaces on Lower Limb Muscle Activation of Tennis Run and Stroke. 2023 International Society of Biomechanics in Sports Conference. 12th July. Milwaukee, United States.	2023 International Society of Biomechanics in Sports Conference
24	Kao C. Y., Kao C. W., Huang T. Y., & Tang W. T. (2023). LOWER LIMB STABILIZATION STRATEGIES OF DART	2023 International Society of Biomechanics in Sports Conference

	ATHLETES AT DIFFERENT LEVELS. 2023 International Society of Biomechanics in Sports Conference. 12th July. Milwaukee, United States. 【Awarded the ISBS Student Travel Awards】	
25	Kao C. W., Kao C. Y., Huang T. Y., & Tang W. T. (2023). GROUND REACTION FORCES OF DART-THROWING AT DIFFERENT TARGET HEIGHTS. 2023 International Society of Biomechanics in Sports Conference. 12th July. Milwaukee, United States. 【Awarded the ISBS Student Travel Awards】	2023 International Society of Biomechanics in Sports Conference
26	Chou T. C., Huang T. Y., & Tang W. T. (2023). Head Striking Patterns of Japanese Kendo between elite traditional Kendoka and elite tournament players. 2023 Congress of International Society of Biomechanics. 30th July. Fukuoka, Japan.	2023 Congress of International Society of Biomechanics
27	Huang T. Y., Chan Y. W., Jih C. Y., & Tang W. T. (2023). CLUB HEAD PARAMETER OF EFFECTING AMATEUR GOLFER'S SMASH FACTOR IN REAL GOLF. 2023 Congress of International Society of Biomechanics. 30th July. Fukuoka, Japan.	2023 Congress of International Society of Biomechanics
28	Chen Y. L., Lien C. H., Yang C. H., Hsiao H. J., Yang C. J., Christopher Chen, & Tang W.T. (2021). Improve Swing Performance of Beginners through Smart Golf Dynamic Analysis and Stability System. The 8th Asian Society of Sports Biomechanics Conference, Taoyuan, Taiwan, October.	The 8th Asian Society of Sports Biomechanics Conference
29	Yen C. L., Wang C. K., Chang Y. J., & Tang W. T. (2021). Effects of Foot Insoles in Golfers with and without Flatfoot. The 8th Asian Society of Sports Biomechanics Conference, Taoyuan, Taiwan, October.	The 8th Asian Society of Sports Biomechanics Conference
30	Wu C. H., Yang C. J., & Tang W. T. (2021). FMS Characteristic and Compensation Trend of Taiwan Elite Teenage Shooting Athletes. The 8th Asian Society of Sports Biomechanics Conference, Taoyuan, Taiwan, October.	The 8th Asian Society of Sports Biomechanics Conference
31	Yang H., Tang W. T. (2021) Gender Differences in Functional Movement Scanning of Taiwan High Schools Tennis Players. The 8th Asian Society of Sports Biomechanics Conference, Taoyuan, Taiwan, October. Award: poster award.	The 8th Asian Society of Sports Biomechanics Conference
32	Chen C. H., Liao Y. M., Tang W. T., & Chen C. P. (2021). Gender Performance Differences between Olympic Level Shooters. The 8th Asian Society of Sports Biomechanics Conference, Taoyuan, Taiwan, October.	The 8th Asian Society of Sports Biomechanics Conference
33	Huang T. Y., Yang C. J., & Tang W. T. (2021). Explore the relationship between the throwing trajectory variability, release timing variability and the dart performance in dart throwing. The 8th Asian Society of Sports Biomechanics Conference, Taoyuan, Taiwan, October.	The 8th Asian Society of Sports Biomechanics Conference
34	Lin, Z. J., Hsiao, H. J., & Tang, W. T. (2021). The Effect of post Knee Injury Recovery on Lower Limb Kinematics. The 8th Asian Society of Sports Biomechanics Conference, Taoyuan, Taiwan, October.	The 8th Asian Society of Sports Biomechanics Conference
35	Lin, Z. J., Tang, W. T., Chen, Y. H., & Hsieh, M. H. (2021). Investigation of Returning serve Techniques Among Elite Table Tennis Players. The	The 8th Asian Society of Sports Biomechanics Conference

	8th Asian Society of Sports Biomechanics Conference, Taoyuan, Taiwan, October.	
36	Peng, Y. C. & Tang, W. T. (2020). Dynamic Balance Ability and Downswing Phase Pelvic Movement Smoothness in Golf Players. Annual Congress of the European College of Sport Science (Vol. 2020, pp. 445). Spain, 28-30 <sup>th</sup> Oct.	The 25th Annual Congress of the European College of Sport Science
37	Liu T.T., C. J. S., Lin Y.C., Tang W.T. (2020). Kinematics analysis of the roundhouse kick according to attack angle in taekwondo. Paper presented at the 25th Annual Congress of the ECSS, Sevilla, Spain. (e-poster)	The 25th Annual Congress of the European College of Sport Science
38	Chen C. Y., Tang W. T., Chen K.U., (2019) The Comparison of Dismount Skill between National and International Men's Artistic Gymnastics in Parallel Bars Apparatus. Paper presented at the World Academy of Science, Engineering and Technology International Journal of Sport and Health Sciences, Singapore. (oral)	World Academy of Science, Engineering and Technology International Journal of Sport and Health Sciences
39	Peng Y.C., & Tang W.T. (2019). Correlation of Star Excursion Balance Test and golf swing efficiency. The 24th Annual Congress of the European College of Sport Science, Prague, Czech Republic. (Vol. 2019, pp. 790)	The 24th Annual Congress of the European College of Sport Science
40	Lin W. H., Tai M. L., Chen Y. L., Kung J.T., Tang W.T. (2019). Functional Movement Screen Scores in Baseball Division I and Division II. The XXVII Congress of the International Society of Biomechanics and 43rd Annual Meeting of the American Society of Biomechanics.	The XXVII Congress of the International Society of Biomechanics and 43rd Annual Meeting of the American Society of Biomechanics
41	Tai, M. L., Yang, C. J., Chang, K. L., Tang, W. T., (2018). Kinematics analysis of the lower extremity during the two-handed backhand grounder stroke and drive volley for tennis player. 36th International Society of Biomechanics in Sports Conference. Auckland, New Zealand, 10-14th Sep. (oral) [Awarded the ISBS Student Travel Awards]	36th International Society of Biomechanics in Sports Conference.
42	Huang, T. Y., et al. (2018). Kinematics Analysis of Taekwondo's Relationship Between Roundhouse Kick Velocity And Electronic Body Protector. ISBS Proceedings Archive 36(1): 742. 36th International Society of Biomechanics in Sports Conference. Auckland, New Zealand, 10-14th Sep. (oral) [Awarded the ISBS Student Travel Awards]	36th International Society of Biomechanics in Sports Conference.
43	Chang, K. L., Tai, M. L., Yang, C. J., Tang, W. T., (2018). The analysis of functional movement screen on elite female tennis player. 6th World Congress of Racket Sport Science. Bangkok, Thailand, 25-26th May. (oral)	6th World Congress of Racket Sport Science.
44	Tai, M. L., Yang, C. J., Chang, K. L., Tang, W. T., (2018). FMS application on physical characteristic analysis between single and double players in badminton. 6th World Congress of Racket Sport Science. Bangkok, Thailand, 25-26th May. (oral)	6th World Congress of Racket Sport Science.
45	Liu T.T., C. J. S., Lin Y.C., Tang W.T. (2018). Comparison of peak linear velocity in a taekwondo kick on different angle of electronic body	The 23th Annual Congress of the European College of Sport Science

	protector. Paper presented at the 23rd Annual Congress of the ECSS, Dublin, Ireland. (e-poster)	
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<b>Research Projects (National Science and Technology Council)</b>		
Date	Project	Number
2023/08-2024/07	Muscle Sensing Patch and Swallowing Sensing Patch Algorithm Development and System Integration—Co-Principal Investigator	NSTC111-2221-E002-163-MY2
2020/08-2023/07	FMS Norm Characteristics of Tennis Players and the Impact of Lower Limb Compensatory Movements on Different Tennis Mobility Techniques and Performance (3-year project) -- Principal Investigator	MOST109-2410-H-179-006-MY3
2018/08-2020/07	Establishment of FMS Norm Characteristics and Compensatory Movements on Golf Swing Performance for Golfers of Different Levels -- Principal Investigator	MOST107-2410-H-179-002-MY2
2018/08-2020/07	Exploring Dynamic Postural Control Ability and Golf Swing Fluency Using the Star Balance Detection Tool--Principal Investigator	MOST107-2410-H006-105
2017/08-2018/09	Establishment of FMS Norm Characteristics and Compensatory Movements on Golf Swing Performance for Golfers of Different Levels--Principal Investigator	MOST106-2410-H179-007
2016/08-2017/07	Exploring Factors Influencing the Transition from Horizontal to Vertical in Long Jump Takeoff--Principal Investigator	MOST105-2410-H-179-008
2015/08-2016/11	Nonlinear Impact of Different Kicking Characteristics on Electronic Protector Scoring in Taekwondo Side Kick--Principal Investigator	MOST104-2410-H-179-003
2013/08-2014/07	Relationship between Functional Movement Diagnosis and Sports Techniques--Principal Investigator	NSC 102-2410-H-179-007
2013/08-2014/07	Exploring the Effect of Sport Fans' Identification on Cognitive Processing of Sports Information Using a Limited Capacity Model –Co-Principal Investigator	NSC102-2410-H156-015
2012/08-2013/07	Analysis of Characteristics and Muscle Performance of Straight Arm Planche on Different Gymnastic Apparatuses—Co-Principal Investigator	NSC101-2410-H179-013
2012/08-2013/07	Assessment and Training Model of Muscle Fitness Deficiency in Pre-Frail Individuals—Co-Principal Investigator	NSC101-2410-H182-027
2012/08-2013/07	Simulation and Training Application of Musculoskeletal Models for Baseball Pitchers Throwing Fastballs and Three Different Breaking Balls--Principal Investigator	NSC101-2410-H179-008
2011/01-2011/12	Effect of Short-Term Isometric and Isotonic Contraction Exercise on Central and Peripheral Fatigue--Co-Principal Investigator	NSC100-2410-H-277-001
2011/08-2012/07	Performance Analysis of Male Gymnasts of Different Ages under Different Weight Conditions: A Case Study of Parallel Bars Circles--Co-Principal Investigator	NSC100-2410-H179-010
2010/08-2012/07	Kinematic and Kinetic Analysis and Finger Utilization Characteristics of Baseball Pitchers Throwing Four Different Types of Pitches--Principal Investigator	NSC99-2410-H179-004-MY2
2010/08-2011/07	Motion Analysis and Palm Pressure Characteristics of Elite Baseball Hitters during Batting--Co-Principal Investigator	NSC99-2410-H-179-013
2010/08-2011/07	Improving Quadriceps Inhibition after ACL Injury through Enhanced Sensory Input II--Co-Principal Investigator	NSC98-2410-H-182-021-MY2

2008/08-2009/07	Improving Quadriceps Inhibition after ACL Injury through Enhanced Sensory Input--Co-Principal Investigator	NSC97-2410-H182-017
2009/08-2010/07	Integrated Analysis of Golf Putting for Players of Different Levels: Perspectives from Kinematics, Kinetics, Electromyography, and Grip Pressure--Principal Investigator	NSC97-2410-H179-006-MY2
2007/08-2008/10	Coordination and Kinematic Analysis of Upper and Lower Limbs in Four Major Taekwondo Kicking Techniques--Co-Principal Investigator I	96-2413-H-179-007
2006/08-2008/07	Study and Model Establishment of Two-Handed Swing Coordination Mechanism in Golfers of Different Levels and Genders (2-year project) --Principal Investigator	NSC95-2413-H179-012-MY2
2006/08-2007/07	Correlation Analysis of Taekwondo Kicking Techniques and Isokinetic Muscle Strength--Co-Principal Investigator	NSC95-2413-H-179-010
2005/08-2006/07	Exploration of Isokinetic Strength and Optimal Kinematic Simulation of Elite Baseball Pitchers (2/2) --Principal Investigator	NSC94-2413-H179-001
2004/08-2005/07	Exploration of Isokinetic Strength and Optimal Kinematic Simulation of Elite Baseball Pitchers (1/2) --Principal Investigator	NSC93-2413-H179-015
2004/08-2005/07	Development and Biomechanical Evaluation of Sports Sandals—Principal Investigator	NSC93-2413-H179-017-CC3
2002/08-2003/07	Optimization of Golf Swing through Computer Simulation—Principal Investigator	NSC91-2413-H179-013

**Research Projects (Sport Administration, Ministry of Education)**

Date	Project
2024/06-2025/05	2024 Sports Administration, Ministry of Education Disciplinary Talent Cultivation Program for Sports Technology Applications: Sub-project 3 Sports Biomechanics Technology Diagnostic Talent Cultivation Program
2024/02-2024/11	2024 Taoyuan City Competitive Sports Science Assistance and Protection Support Program
2024/03	2024 National Sports Training Center - Technical Diagnosis and Compensatory Movement Analysis for National Archery Athletes, Sports Administration National Sports Science Center
2024/01-2024/06	Promoting New Southbound Policy in Sports - School Sports Exchange Implementation Plan Subsidy 'Invitation to Melbourne University Distinguished Professor to Visit Taiwan' Ministry of Education Sports Administration
2024/01-2024/12	2024 Subsidy Program for Sports Science Teams to Assist Grassroots Athletes '2024 Precision Competitive Sports Technical Analysis and Support Training Program'
2023/03-2023/11	2023 Taoyuan City Government Sports Bureau Competitive Sports Science Assistance and Protection Support Program
2023/01-2023/12	Trial Program for Sports Science Assistance to Grassroots Athletes 'Sub-project 2 Sports Technical Diagnosis and Training Program' Ministry of Education Sports Administration
2022/08-2023/07	University Teaching Practice Research Program - Multidimensional Interactive Teaching Combining Competency-based Practice 'Seeing the Physical World of Force and Beauty through Sports' Ministry of Education
2022/08-2023/07	Sports Science Support Program for Competitive Sports - Selection Criteria and Technical Diagnosis and Training Program for Archery Athletes Ministry of Education Sports Administration
2018/12-2019/11	The Survey Project on the Selection of Advantageous Sports Categories and Talent Cultivation Science in Our Country

2008/03-2008/12	Promoting the Merger of Sports Colleges and the Establishment of a Sports University to Improve Training Technology and Teaching Environment Special Project Assistance Sub-Project Co-Principal Investigator Ministry of Education	
2007/09-2008/07	2008 Olympic Golden Plan Archery Program, Archery Sports Science Committee Member and Convener Sports Commission	
2005/06-2005/12	Cultivating Outstanding Indigenous Student Athletes Sub-Project Co-Principal Investigator Research Monitoring Program Ministry of Education	
2003/09-2004/07	2004 Athens Olympic Archery Program Principal Investigator Sports Commission	
<b>Research Projects (Industry-university cooperation)</b>		
<b>Date</b>	<b>Project</b>	<b>Company</b>
2024/10-2024/12	Smart Analysis and Application of Sports Data: Evidence-Based Integration and Service in Sports Demonstration Fields	Institute for Information Industry
2024/08-2024/11	Research on Value-Added Service Modules for the Public Sports Data Platform: Application of Fitness and Exercise Data for Health Promotion	Institute for Information Industry
2023/01-2023/12	E-sports Mouse Human Factors Evaluation Knowledge Contribution and Sharing Project - BenQ Sports Technology	BenQ Corporation
2022/12-2023/07	BenQ Remote Research Methodology Industry-Academia Collaboration Project	BenQ Corporation
2022/04-2023/02	Core Technology Empowerment Device - Dynamic Image Posture Tracking Analysis Research Project	Institute for Information Industry
2022/04-2022/07	Testing of Multiuse Exercise Machine & Related Drive Train	Shuangshuang IoT Co., Ltd.
2018/03-2018/10	Pilot Study on Sports Bras for Middle-aged and Elderly	Charmain Co., Ltd.
2018/03-2018/12	Pilot Study on Sports Functional Clothing	Shinyuan Enterprise Co., Ltd.
2018/03-2020/12	Development of Functional Exercise Smart Data Analysis Products for Aging Population	Yuzhe Information Services Co., Ltd.
2018/12-2019/11	Ministry of Education Sports Administration Commissioned Investigation on the Selection and Talent Cultivation of Superior Sports in Taiwan	Administrative Assistance
2015/03 - 迄今	Shinyuan Enterprise Co., Ltd. Commissioned Pre-project for Bicycle Functional Smart Clothing	Shinyuan Enterprise Co., Ltd.
2015/05-2016/04	Yulejia Golf Business Co., Ltd. Commissioned Testing of Swing Performance for Children and Youth Golf Players	Yulejia Golf Business Co., Ltd.
2012/07 - 迄今	Taiwan Science Popularization Project - 100th Year Media Production Pilot Scheme: Science Education Film - The Science of Martial Arts and Dance	National Science Council
2011/05-2012/05	Function Testing and Design Improvement of Sports Bras Project	Wacoal
2011/07-2011/12	Clothing Development Project for Sports Training	Industrial Development Bureau, Ministry of Economic Affairs
2011/07-2011/12	Functional Swimwear Development, Processing, and Manufacturing Guidance Project	Industrial Development Bureau, Ministry of Economic Affairs
2011/03-2011/11	Sports and Health sCare Service Physical and Online System Platform Construction Project	Commercial Department, Ministry of Economic Affairs

2010/12-2011/05	Flexible Picking System and Collaborative Transportation Demand Analysis Project	Industrial Development Bureau, Ministry of Economic Affairs
2010/12-2011/05	Feasibility Assessment and Analysis of Energy-saving Air Conditioning Systems and Sports Venues	Industrial Development Bureau, Ministry of Economic Affairs
2010/12-2011/05	Integrated Development and Analysis of Sports Equipment Industry and Health Care Training Aids	Industrial Development Bureau, Ministry of Economic Affairs
2010/12-2011/05	Analysis of Health Devices with Comfort Functions Developed for Long-distance Flight Passengers	Industrial Development Bureau, Ministry of Economic Affairs
2009/08-2011/03	Taiwan Science Popularization Project - 97th Year Media Production Pilot Scheme: Sports Science Investigation	Industrial Technology Research Institute
2005/07-2006/12	Swing Characteristics of Golf Players with Different Club Speeds Project	Industrial Technology Research Institute