

## **CURRICULUM VITA**



**Wen-Tzu Tang**

### **Contact information:**

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### **Education**

2002 Ph D. in Kinesiology and Health Education, University of Texas at Austin.  
1998 M. Ed. in Kinesiology (Biomechanics), University of Texas at Austin, TX.  
1994 M. S. in M. S. in Physical Oceanography, National Taiwan University, Taipei, Taiwan.  
1991 B. S. in Physics, Tung-Hai University, Taichung, Taiwan (ROC).

### **Professional appointments**

#### **Admintration**

2015-present Dean, College of Exercise and Health Science  
2010-2013 Dean of Research &Development affairs, National Taiwan Sport University  
2009-2011 Director, Graduate Institute of Coaching Science, National Taiwan Sport University

#### **Teaching**

2009-2012 Professor, 2006- 2009: Associate Professor, 2002- 2006: Assistant Professor.  
Graduate Institute of Coaching Science, National Taiwan Sport University, coursed at Sport Biomechanics, Research Method of Biomechanics, Computer Simulation in Sport Biomechanics, Motor control in Sport, Practical Training in Sport Science and coaching Science

### **Public Service**

2016-2018 Board Director of International Society of Biomechanics in Sports(ISBS)  
2004-present Committee member of Taiwan Society of Biomechanics in Sports  
2011-2012 Committee member of CTSUF,Golf association

### **Recent Sport science support**

2012-2016 Sport science committee chair for National Archery Team(2016 Olympic Games)

2002-2012 Sport Science Committee Member in Chinese Taipei(Athens 2004 Olympic Games, 2006,Dohu Asian games, Beijing 2008 Olympic Games, etc.)

2005-2006 Qatar 2006 Asian Games Sport Science Committee Member & Convener in Chinese Taipei

### **Recent Invited lectures**

2016 Lecturer of coach and technology workshop of Asian Archery Federation

2016 Lecturer of coach workshop of The Golf Association of The Republic of China

2015 Invited Speaker of ChangZong University, 'Equipment Application of Sport Science for Training'

2013 Invited speaker at Department of Integrative Biology, UC Berkeley,USA 'Sport biomechanics in Olympics'

2012 Invited speech in Danchiang University, 'Golf Biomechanics'

2012 Lecturer of coach and technology workshop of Asian Archery Federation

2012 Lecturer of 25<sup>th</sup> Conference of Golf Science in Japan

2012 Invited speaker of seminar in NIFS, Japan

2012 Lecturer of C Level coach workshop of The Golf Association of The Republic of China

2011 Lecture in Coach workshop for Olympic Game and Asian game event

2011 Lecture for B level Swimming coach workshop of Taiwan Swimming Association

2010 Lecturer of Badminton coach training of Chinese Taipei Badminton Association

2010 Lecturer of B level Judo coach training of Chinese Taipei Judo Association

2010 Lecturer of 16<sup>th</sup> NKSU International Conference-Sports Science and Olympics

2009 Lecturer of A level Judo coach workshop of Chinese Taipei Judo Association

2009 Lecturer of teenagers Pole Vault workshop of Chinese Taipei Track and Field Association

2008 Lecturer of DEAFLYMICS and World Game Sport Science Workshop For Elite Coach

2008 Lecturer of B level coach workshop of Chinese Taipei Taekwondo Association

2007 Lecturer of A, B level coach workshop of Chinese Taipei Amateur Boxing Association

### **Media Works**

2013- Funded By Science Council , Kungfu and Dance Science

2010-Funded By Science Council , Sport Science Investigation(Project conductor)

### **Awards**

2012 Elite researcher Award of National Science Council

2011 Sport Research Award of Sport Affairs Council - Biomechanical Effects of Stride Types on the Pivot Leg of Elite Baseball Pitchers

2011 Sport Research Award of Sport Affairs Council - Effects of Golf Grip Size on Putting Performance and Grip Pressure in Elite Golfer

2011 Elite researcher Award of National Science Council

2010 Sport Research Award of Sport Affairs Council -Measurement of Badminton Racket Deflection during a Stroke.

2010 Sport Research Award of Sport Affairs Council - Compare Element Groups between National Games and Olympic Games Men's Artistic Gymnast's Performance

2010 Elite researcher Award of National Science Council

2001 International Society of Biomechanics,ISB dissertation Award Analysis of Golfswing Optimization Models.

### **Recent publication in Journal**

Lin, K.-H., Y.-M. Huang, W.-T. Tang, Y.-J. Chang, Y.-C. Liu and C. Liu (2013). Correlation of static and dynamic trunk muscle endurance and bat swing velocity in high school aged baseball players. *Isokinetics and Exercise Science* **21**(2): 113-119.

Lung-Jieh Yang\*, Fu-Yuen Hsiao, Wen-Tzu Tang & I-Cheng Huang. (2013). 3D Flapping Trajectory of a Micro-Air-Vehicle and its Application to Unsteady Flow Simulation. *International Journal of Advanced Robotic Systems*, 10, 264-274.

Chan,C.-N,Chen, J.-H.,Tang, W.-T.(2012) Effect of Rhythmic Training on Consistency of Golf Putting for Novices, *Journal of Physical Education in Higher Education* ,14(3),359-366, (Taiwan)

Chen,K.-H., Chen, C.-Y., Tang, W.-T.(2012) Comparison between Taiwanese and International Elite Gymnasts in the Rings Event, *Physical Education Journal*,45(4),347-357 (Taiwan)

Chiang, C.-C.,Hung, T.-Y.,Cheng, C.-L., Tang, W.-T.(2012) Muscle Activation of the Upper Extremity during the Two-Handed Backhand Strokes in Female Tennis Player, *Physical Education Journal*,45(2) , 103-112 (Taiwan)

Chen, K.H., Ko, W.C.,& Tang,W.T.(2011) Comparison of Score Values between Male Artistic Gymnasts at Different Skill Levels .*Physical Education Journal*,44(4) , 134 -148(Taiwan)

Chen,K.H., Cheng,C.L. & Tang,W.T.(2011)Comparison of Post-Flight Performances Among Three Touchdown Locations for Front Handspring Vaults. *Sports & Exercise Research*,13(4),102 -110(Taiwan)

Huang ,Y.M., Hung,T.Y. Nien, Y.H., Chang,Y. J.& Tang,W.T.(2011)Effect of Strength

- Training with Enhanced Sensory Input on Quadriceps Voluntary Activation and Landing Performance in Subjects with Anterior Cruciate Ligament Injury. *Sports & Exercise Research*1,3(3),327-336(Taiwan)
- Chiang,C.C. Chiang,J.Y. &Tang,W.T. (2011)Kinematics Analysis of the Hitting Arm between First and Second Serves in Male Tennis Players.*Aspers* ,No.50, 45-60(Taiwan)
- Hu,C.C., Hsiao,H.J.& Tang,W.T.(2011)Body Roll Action and Front Crawl Swimming Performance .*Sport Research Review*(113),42-48(Taiwan)
- Yang,C.J. , Guo,Y.H., Sung, T.S. &Tang,W.T.(2011)Effects of Golf Grip Size on Putting Performance and Grip Pressure in Elite Golfer. *Physical Education Journal* ,44(1) , 29-43(Taiwan)
- Chen, S.W., Tang,W.T., Kung,J.T. & Hung,T.Y. (2011)Biomechanical Effects of Stride Types on the Pivot Leg of Elite Baseball Pitchers. *Sports & Exercise Research* 13(1) , 63-71(Taiwan)
- Kwan\*, M., Andersen, M. S., Cheng, C.-L., Tang, W.-T., & Rasmussen, J. (2010). Investigation of high-speed badminton racket kinematics by motion capture. *Sports Engineering*, 13(2),57-63.
- Kwan\*, M., Cheng, C. L., Tang, W. T., & Rasmussen, J. (2010). Measurement of badminton racket deflection during a stroke. *Sports Engineering*, 12(3),143-153.
- Hsiao,C.C., Hung,T.Y. , Cheng,C.L.& Tang,W.T.(2010)Low Extremity Joint Kinematics of Successive Roundhouse Kicking in Taekwondo. *Sports & Exercise Research*,12(4) , 69-78(Taiwan)
- Cheng,C.L, Li,Z.N. & Tang,W.T.(2010)Investigation on Three Fundamental Techniques of Pool Stroke Motion Performed by 2005 9-Ball World Pool Champion .*Chinese Journal of Sports Biomechanics*,2,31-37(Taiwan)
- Chen,K.H. , Cheng,C.L.& Tang,W.T.(2010)Comparison of Two kinds of 3/3 Travel in Russian Type Wendeswing with 720° Turning in Pommel Horse .*Chinese Journal of Sports Biomechanics*,2,38-47
- Chen,K.H., Tang,W.T.&Tsau, H.(2010)Compare Element Groups between National Games and Olympic Games Men's Artistic Gymnast's Performance. *Physical Education Journal*,43(1),89-103(Taiwan)
- Chen,K.H., Tang,W.T.,& Tsau,H.(2010)Comparison of Center of Mass Displacement and Velocity Error of Artistic Gymnastic Movements Measured with Different Anthropometric Approaches.*Sports & Exercise Research*,12(1),107-115(Taiwan)
- Hsiao,C.C. ,Hung,T.Y., Cheng,C.L.& Tang,W.T.(2010)Low Extremity Joint Kinematics of Successive Roundhouse Kicking in Taekwondo.*Sports & Exercise Research*,12(4),1-10(Taiwan)
- Hung, T. M., Tang, W. T., and Shiang, T. Y. (2009). A Case Study of Intergrated Sport Sciences for an Olympic Archer. *Journal of Medical and Biological Engineering*, 29(4),

164-171. (EI)

- W.-T. Tang\* and H. Shou (2005), 'Relationship between isokinetic strength and shooting accuracy at different shooting ranges in Taiwanese elite high school basketball players'. *Isokinetics and Exercise Science*, 13, 169-174., (SCI)
- Tang, W. T., Zhang, W. Y., Huang, C. C., Young, M. S., & Hwang, I. S. (2008). Postural tremor and control of the upper limb in air pistol shooters. *Journal of Sports Science*, 26(14), 1579-1587. (SCI)
- Tang, W. T., Kung, J. T., Chen, C. M., and Chiang, Y. L. (2009). Relationship between the Pitching Speed and Isokinetic Strengths for Taiwan Elite Adult Male Pitchers. *Journal of Physical Education in Higher Education*, 11(1), 83-92. (Taiwan)
- Chen, K.H., Tang, W.T. & Kao, M.F. (2009) The Kinematics Analysis of Sohn Exercise in Pommel Horse. C.E.P.S, Vol.20, No.1, P.109-123 (Taiwan)
- Tang, W.T., Kung, J.T., Chen, C.M. & Chiang, Y.L. (2009) Relationship between the Pitching Speed and Isokinetic Strengths for Taiwan Elite Adult Male Pitchers. *Sports & Exercise Research*, 11(1), 83-92 (Taiwan)
- Tang, W.T., Sun, C.H. & Huang, Y.M. (2009) Kinematic Analysis of Different Jump Shots in Elite and Non-Elite Basketball Players. *Sports & Exercise Research*, 11(3), 69-80 (Taiwan)
- Tang, W.T., Hung, T.Y. & Chen, P. Yang. (2009) The Kinematic Analysis of Upper Limb during the Second Pull of Snatch in Elite College Weight Lifter. *Physical Education Journal*, 42(4), 13-28 (Taiwan)
- Chen, K.H., Tang, W.T., & Fang, Y. (2009) Training Method of the Forward Scissors Movement on the Pommel Horse in Men's Artistic Gymnastics. TPEC PRESS No.17, P.49-58 (Taiwan)
- Chen, K.H., Tang, W.T. & Kao, M.F. (2009) The Kinematics Analysis of Sohn Exercise in Pommel Horse. C.E.P.S, Vol.20, No.1, P.109-123 (Taiwan)
- Tang, W.T., Kung, J.T., Chen, C.M. & Chiang, Y.L. (2009) Relationship between the Pitching Speed and Isokinetic Strengths for Taiwan Elite Adult Male Pitchers. *Sports & Exercise Research*, 11(1), 83-92 (Taiwan)
- Tang, W.T., Sun, C.H. & Huang, Y.M. (2009) Kinematic Analysis of Different Jump Shots in Elite and Non-Elite Basketball Players. *Sports & Exercise Research*, 11(3), 69-80 (Taiwan)
- Tang, W.T., Hung, T.Y. & Chen, P. Yang. (2009) The Kinematic Analysis of Upper Limb during the Second Pull of Snatch in Elite College Weight Lifter. *Physical Education Journal*, 42(4), 13-28 (Taiwan)
- Chen, K.H., Tang, W.T., & Fang, Y. (2009) Training Method of the Forward Scissors Movement on the Pommel Horse in Men's Artistic Gymnastics. TPEC PRESS No.17, P.49-58 (Taiwan)
- Lee, Y.H., Cheng, C.L. & Tang, W.T. (2009) Discussion of Muscle Rate, Somatotype and Tokui-waza in Elite College Judo Athletes. TEPS Vol.19 No.3 (Taiwan)

- Yu,F., Chen,K.H. & Tang,W.T. (2009)Circles in Cross Support on Pommel Horse Used in Gymnastic Training .TPEC PRESS No.18,P.124-131(Taiwan)
- Masami Nakata, Huang,Y.M. Wu,H.T. Tang,W.T.(2009)Investigations of Pre-setting Score, Final Score and Score Difference of Difficulty in 2007 World Rhythmic Gymnastics Championships.TEPS19(3) , 77-86
- Liao, C. N. and Tang, W. T. (2008). Variation of Tremor Pattern in Elite Archer with Different Rounds of the Simulating Olympic Games. *Journal of Physical Education in Higher Education*, 10(4), 59-70.. (Taiwan)
- Lo, H. I., Lin, C. H., Chen, M. Y., Tang, W. T., and Hsu, M. C. (2008). Effects of Guizhi-Longgu-Mult Tang supplementation on physiopsychological responses in mental stimuli. *Journal of Physical Education & Recreation*, 14(1), 47-53.
- Lo, H. I., Lin, C. H., Chen, M. Y., Tang, W. T., & Hsu, M. C. (2007). Effects of Sedative Herbs Supplementation on Physiological Responses and Performance in Personal Archery Competition. *Physical Education Journal*, 40(4), 13-22.
- Yang, C. Y., Cheng, C. L., and Tang, W. T. (2007). Exploring the Skill of the Releasing of Wrist of the Elite Female College Golf Players. *Golf Science*, 4, 1-7. (Taiwan)
- Tang, W.-T. & Yang, C.-Y.(2005). The Characteristics of the Isokinetic Muscle Strengths of the Elite College Female Golf Players. *Journal of Physical Education in Higher Education*, 7(1), 201-208. (Taiwan)