

陳尹華 Yin-Hua Chen

Assistant Professor

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RESEARCH INTERESTS

Sport psychology, motor behavior, sports neuroscience, cognitive neuroscience, functional magnetic resonance imaging (fMRI), experimental psychology, perception

WORKING EXPERIENCE

- 2020/08 ~ now Assistant Professor
Graduate Institute of Athletics and Coaching Science, NTSU, Taiwan
- 2019/08 ~ 2020/08 Assistant Research Fellow
Research center of Mind, Brain, and Learning (RCMBL), National Cheng-Chi University (NCCU), Taiwan
- 2018/02 ~ 2019/07 Adjunct Assistant Professor
Department of Athletic Performance, National Taiwan Normal University (NTNU), Taiwan
- 2013/04 ~ 2019/07 Postdoctoral Fellow
RCMBL, NCCU, Taiwan
- 2015/12 ~ 2017/12 General Competition Manager of Fencing for 2017 Taipei Summer Universiade Games, Taiwan
- 2012/06 ~ 2013/01 Technician of Biomechanics Laboratory
Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona, Italy
- 2012/09 ~ 2013/01 Fencing trainer
Fencing Club "Bentegodi", Verona, Italy

EDUCATION

- 2009/03 ~ 2012/06 Ph. D. in "Science of Physical Exercise and Human Movement"
Department of Neurosciences, Biomedicine and Movement Sciences
University of Verona, Italy
- 2006/09 ~ 2009/01 Master of Science Degree in Motor Behavior
Graduate Institute of Exercise and Sport Science, NTNU, Taiwan

1997/08 ~ 2002/05 Bachelor's Degree of Arts
Department of Advertising, Minor in Russian, NCCU, Taiwan

REVIEWING EXPERIENCE

- 2019 ~ now Journal of Experimental Psychology: Human Perception and Performance
- 2016 ~ now International Journal of Sport Psychology
- 2015 ~ now Physical Educational Journal (體育學報)

AWARDS and HONORS

- 2019 ~ 2021 Research Project “Contributions of different levels of visual, perceptual and motor experience of an observed action to anticipating its result” (Ministry of Science and Technology (MOST) 108-2410-H-004 -213 -MY2)
MOST, Taiwan
- 2017 Postdoc Academic Publication Award MOST, Taiwan
- 2015 ~ 2017 Research Project “To bat or not? Batting eye of elite batters & its underpinned neural mechanism: an fMRI study” (MOST 104-2420-H-004-005-MY3)
MOST, Taiwan
- 2014 Travel Scholarship for 2014 2nd International Congress on Sport Sciences Research and Technology Support held in Italy
MOST, Taiwan
- 2009 ~ 2011 3-year scholarship in Ph. D. research
Department of Neurological and Movement Sciences, University of Verona, Italy
- 2008 Lan-Yuan Scholarship for Excellent Students of College Sports and Recreation, NTNU (NT\$20,000)
NTNU, Taiwan
- 2008 Travel Scholarship for North-American Society for Psychology of Sport and Physical Activity Conference in Canada
MOST, Taiwan
- 2007 Scholarship for Excellent Students of Graduate Institute of Exercise and Sport Science
NTNU, Taiwan
- 2007 Travel Scholarship for 2007 Asia-Pacific Conference on Exercise and Sport Science held in Japan
MOST, Taiwan
- 2006 Scholarship for Excellent Students of Graduate Institute of Exercise and Sport Science
NTNU, Taiwan

PUBLICATIONS

1. **Chen, Y. H.**, Chang, C. Y., Huang, S. K., & Yen, N. S. (2020). Nonlinear engagement of action observation network underlying action anticipation in players with different levels of expertise. *Human Brain Mapping*, 41: 5199-5214.
<https://onlinelibrary.wiley.com/doi/epdf/10.1002/hbm.25186>.
2. Sie, J. H., **Chen, Y. H.**, Shiao, Y. H., & Chu, W. C. (2019). Gender- and Age-Specific Differences in Resting-State Functional Connectivity of the Central Autonomic Network in Adulthood. *Frontiers in Human Neuroscience*, 13:369.
3. **Chen, Y. H.**, Belleri, R., & Cesari, P. Representational momentum in adolescent dancers. *Psychological Research*. <https://doi.org/10.1007/s00426-019-01234-x>.
4. **Chen, Y. H.**, Cheng, H. P., Lu, Y. W., Lee, P. H., Northoff, G., & Yen, N. S. (2019). Can knowledge of election results change recall of our predictions? Neural correlates of political hindsight bias. *PLOS ONE*, 14(10): e0220690.
5. Sie, J. H.*, **Chen, Y. H.***, Chang, C. Y., Yen, N. S., Chu, W. C., & Shiao, Y. H. (2019). Altered central autonomic network in baseball players: A resting-state fMRI study. *Scientific Reports*, 9, 110. (* equal contribution)
6. Chang, C. Y.*, **Chen, Y. H.*** & Yen, N. S. (2018). Nonlinear neuroplasticity corresponding to sports experience: A voxel-based morphometry and resting-state functional connectivity study. *Human Brain Mapping*, 39, 4393-4403. (* equal contribution)
7. **Chen, Y. H.** & Liu, Y. T. (2018). Fencers' perception of affordances of an opponent's attack. *International Journal of Sports Science & Coaching*, 13(6), 1023-1030.
8. **Chen, Y. H.***, Chen, Y. C.*, Kuo, W. J., Kan, K. H., Yang, C. C., & Yen, N. S. (2017). Strategic concern drives proposers to offer fairly in ultimatum games: An fMRI study. *Scientific Reports*, 7, 527. (* equal contribution)
9. **Chen, Y. H.**, Lee, P. H., Lu, Y. W., Huang, S. K., & Yen, N. S. (2017). Contributions of Perceptual and Motor Experience of an observed action to anticipating its result. *Journal of Experimental Psychology: Human Perception and Performance*, 43(2), 307-316.
10. **Chen, Y. H.**, Verdinelli, I., & Cesari, P. (2016). Elite athletes refine their internal clocks: A Bayesian analysis. *Motor Control*, 20, 255-265.
11. **Chen, Y. H.** & Cesari, P. (2015). Elite athletes refine their internal clocks. *Motor control*, 19, 90-101.
12. **Chen, Y. H.** & Liu, Y. T. (2015). To reach or not to reach? Fencers' perceptions for their reaching range. *International Journal of Sport Psychology*, 46(1), 83-94.

13. **Chen, Y. H.**, Pizzolato, F., & Cesari, P. (2014). Time flies when we view a sport action. *Experimental Brain Research*, 232, 629-635.
14. **Chen, Y. H.**, Pizzolato, F., & Cesari, P. (2013). Observing expertise-related actions leads to perfect time flow estimations. *PLoS One*, 8(2): e55294. doi:10.1371/journal.pone.0055294.
15. 劉有德 (總校閱)、謝宗諭、陳秀惠、戴遠成、嚴雅婷、江函芸、王衍超、李易潔、陳尹華、與鄭光志合譯 (作者依章節排序) (2010)。技能學習的動力：限制導向的觀點。台北市：禾楓書局出版 / 華騰文化總經銷。ISBN: 978-986-6287-08-4 (original work of Davis, K, Button, C., & Bennett, S, 2007, see below). Davids, K., Buttons, C., & Bennett, S. (2007). *Dynamics of skill acquisition: A constraints-led approach*. Champaign, IL: Human Kinetics. ISBN: 13-978-0736036863

CONFERENCE PRESENTATION AND PARTICIPATION

International Conference

1. **Chen, Y. H.**, Chang, C. Y., & Yen, N. S. (2016, Jun). Swing decisions between skilled and intermediate baseball batters: an fMRI study. Poster presented in the 22nd Annual Meeting of the Organization for Human Brain Mapping, Geneva, Switzerland.
2. Chang, C. Y., **Chen, Y. H.**, & Yen, N. S. (2016, Jun). Training-induced neuroplasticity in baseball players with different skill levels. Poster presented in the 22nd Annual Meeting of the Organization for Human Brain Mapping, Geneva, Switzerland.
3. **Chen, Y. H.**, Cheng, H. P., Lu, Y. W., Lee, P. H., Northoff, G., & Yen, N. S. (2016, Jun). Hindsight bias and self: An fMRI study. Poster presented in the 22nd Annual Meeting of the Organization for Human Brain Mapping, Geneva, Switzerland.
4. **Chen, Y. H.**, Lee, P. H., Lu, Y. W., & Yen, N. S. (2014, Oct). Seeing or Doing? Pitch recognition of batters versus pitchers: A preliminary report. Oral presentation in the 2nd International Congress on Sport Sciences Research and Technology Support, Rome, Italy.
5. **Chen, Y. H.**, Lu, Y. W., Lee, P. H., & Yen, N. S. (2014, Oct). To bat or not to bat? Batting Eye of Elite Batters: A preliminary report. Oral presentation in the 2nd International Congress on Sport Sciences Research and Technology Support, Rome, Italy.
6. **Chen, Y. H.**, Chen, Y. C., Kuo, W. J., Kan, K. H., Yang, C. C., & Yen, N. S. (2014, Sep). Do stake sizes matter in the Ultimatum Game? An fMRI study. Poster presented in the 2014 annual meeting of the Society for Neuroeconomics, Miami, FL, USA.
7. **Chen, Y. H.**, Pizzolato, F., & Cesari, P. (2012, May). Precision and stability in time reproduction: a professional pianists' study. Poster presented in the Annual meeting of Associazione Italia dello

Sport (AIPS) 2012, Verona, Italy.

8. **Chen, Y. H.**, Pizzolato, F., & Cesari, P. (2011, Sep). Investigating time reproduction in athletes using flashing images: Evidence for two differential mechanisms below and above a second. Poster presented in the Annual meeting of Societa' Italiana delle Scienze Motorie e Sportive (SISMES) 2011, Verona, Italy.
9. **Chen, Y. H.** & Cesari, P. (2010, Jun). Time estimation in sports. Poster presented in the biannual European Workshop of Ecological Psychology 11 (EWEP11), Frejus, France.
10. **Chen, Y. H.**, & Liu, Y. T. (2010, Jun). Fight or flight? Movement kinematics analyses of duel in fencing. Poster presented in the annual meeting of North-American Society for Psychology of Sport and Physical Activity 2010, Arizona, America.
11. Progress in Motor Control VII (2009, July), Marseille, France.
12. **Chen, Y. H.**, & Liu, Y. T. (2009, Jun). Distance perception for self and others in fencing. Poster presented in the annual meeting of North-American Society for Psychology of Sport and Physical Activity 2009, Austin, America.
13. **Chen, Y. H.**, & Liu, Y. T. (2008, Jun). Perceiving the distances of opponent's lunge in fencing. Poster presented in the annual meeting of North-American Society for Psychology of Sport and Physical Activity 2008, Niagara Falls, Canada.
14. **Chen, Y. H.**, & Liu, Y. T. (2007, Dec). Perceiving the distance with a hand-held object and a lunge (in fencing). Poster presented in the annual meeting of Asian-Pacific Conference on Exercise and Sport Science, 2007, Hiroshima, Japan.

Domestic Conference

1. **Chen, Y. H.**, Chang, C. Y., & Yen, N. S. (2016, Jan). Batting eye of elite batters & its underpinned neural mechanism: An fMRI study (The preliminary report). Oral presentation in the 2016 annual meeting of the Taiwan Society of Cognitive Neuroscience, Taipei, Taiwan.
2. Cheng, H. P., **Chen, Y. H.**, Lu, Y. W., Lee, P. H., Northoff, G., & Yen, N. S. (2016, Jan). Hindsight bias and self-relevance: an fMRI study. Poster presentation in the 2016 annual meeting of the Taiwan Society of Cognitive Neuroscience, Taipei, Taiwan.
3. **Chen, Y. H.**, Chen, Y. C., Kuo, W. J., Kan, K. H., Yang, C. C., & Yen, N. S. (2015, Jan). Stakes do matter for the proposing behavior in Ultimatum Games: An fMRI study. Oral presentation in the 2015 annual meeting of the Taiwan Society of Cognitive Neuroscience, Taipei, Taiwan.
4. Symposium on Motor skill development in adolescents (2014, Dec), Taipei, Taiwan.
5. Workshop on Information and Neural Decision Sciences (2014, Dec), Taipei, Taiwan.
6. Symposium on Neuroscience and Behavioral Economics (2014, July), Taipei, Taiwan.

7. Annual meeting of Taiwan Society of Cognitive Neuroscience (2014, Jan), Taoyuan country, Taiwan.
8. The decision brain: Symposium on decision making and neural computation (2013, July), Taipei, Taiwan.

INVITED TALKS

1. 2018/08/05. Neural signature of expert action anticipation. Tech-Talk FORUM 2018, Taipei.
2. 2017/11/11. Batting eye of elite batters & its underpinned neural bases. Institute of Neuroscience. National Yang-Ming University.
3. 2017/10/18. Batting eye of elite batters & its underpinned neural bases. Department of Psychology. National Chengchi University.
4. 2016/11/14. The application of neuroscience in sports: Batting decision of elite batters & the underlying neural bases. Department of Athletic Performance, National Taitung University, Taiwan.
5. 2015/05/29. Time perception of elite athletes, and my transition from a fencer to a researcher. Graduate Institute of Athletics and Coaching Science, National Taiwan Sport University, Taiwan.
6. 2014/11/25. Seeing or doing? Pitch recognition of batters versus pitchers: A preliminary report. Institute of Cognitive Neuroscience. National Central University.
7. 2014/11/06. From a fencer to a researcher. Department of Athletic Performance. National Taiwan Normal University.

COMPETATIVE FENCING & COACHING EXPERIENCE

I started competitive fencing (epee) during my undergraduate years. Upon graduation, I received intensive training in Korea for one year and half with Gwangju professional fencing team. Since then I had been the top ranking woman fencer (epee) in the Taiwanese fencing fraternity. I had been selected as a national representative for the Taiwanese fencing team for many important international competitions such as Asian Games, World Championships and Asian Championships. When I was in Italy, I fenced for club "Bentegodi", "Verona Scherma" in Verona from 2009 to 2011, and trained in club "Mangiarotti" in Milano in 2012. I also taught fencing in club "Bentegodi" as a trainer from 2012 to 2013. After I returned to Taiwan in 2013, I kept fencing until 2017 National Games.

2017	Silver Medal of Team event in 17 th National Games, Taiwan
2016	Silver Medal of Individual event in National Competition, Taipei, Taiwan
2015	Bronze Medal of Team event in 16 th National Games, Taiwan Gold Medals of Individual event in National Competitions, Taipei, Taiwan
2014, 2015	Gold Medals of Individual event in National Competitions, Taipei, Taiwan
2013	Gold Medal of Individual event in Regional Competition in Verona, Italy; Silver Medal in National Competition, Taipei, Taiwan; Participation of the 15 th National Games, Taiwan
2012	Participation of Asian Championship in Wakayama, Japan; Participation of International Tournament in Saint Maur, Paris; Barcelona, Spain; Budapest, Hungary; Doha, Qatar; Arhus, Denmark Gold Medals of Individual event in Regional Competition in Vicenza, Italy; National Couple Competition in Vicenza, Italy
2011	Participation of Fencing World Championship in Catania, Italy; Participation of International Tournament in La Havana, Cuba; Rio De Janeiro, Brazil; Leipzig, Germany; Barcelona, Spain; Budapest, Hungary; Gold Medal of National Couple in Santa Margherita, Italy Participation of the 14 th National Games, Taiwan
2010	Participation of Fencing World Championship in Paris, France; Participation of 16th Asian Games in Guangzhou, China;

	<p>Bronze Medal of Team event in Asian Championship in Seoul, Korea;</p> <p>Participation of International Tournament in Monaco, Monaco; Saint Maur, Paris; Barcelona, Spain; Rome, Italy; Budapest, Hungary;</p> <p>Gold medals of Individual event in Regional Competition in Milano and Cremona, Italy; Silver Medal in Vicenza, Italy; Gold Medal of Regional Couple Competition in Verona, Italy</p>
2009	<p>Gold Medals of Individual event in Regional Competitions in Veneto, Italy; Vicenza, Italy; Silver Medal in Torino, Italy</p> <p>Participation of International Tournament in Monaco, Monaco;</p> <p>Participation of National Competition in Rovigo, Italy; Regional Competition in Milano</p> <p>Participation of 13th National Games in Taichung, Taiwan</p>
2008	<p>Participation of Asian Championship in Bangkok, Thailand;</p> <p>Participation of International Tournament in Montreal, Canada and Luxembourg, Luxembourg</p> <p>Yearly Ranking #1 of Taiwan;</p> <p>Gold medal of Individual event in 2008 National Intercollegiate Athletic Games</p>
2007	<p>Silver Medal of Individual event in 12th National Games in Tainan, Taiwan;</p> <p>Gold Medal of Individual event in 2007 National Intercollegiate Fencing Championship;</p> <p>Participation of Asian Championship in Nantong, China;</p> <p>Participation of International Tournament in Nanking, China</p>
2006	<p>Participation of the 15th Asian Games held in Doha, Qatar;</p> <p>Participation of International Tournament in Nanking, China</p>
2005	<p>Gold Medal of Individual event in 11th National Games in Yun-Lin, Taiwan</p> <p>Participation of International Tournament in Tauberbischohsheim, Germany and Nanking, China</p>
1999 ~ 2002	<p>Gold Medal of Team (1999~2002), Silver Medal of individual (2002) and Bronze Medal of Individual (2001) event in Intercollegiate Fencing Championship, Taiwan</p> <p>Gold Medals of Individual and Team event in the 10th Asian Collegiate Fencing Championships in Hong Kong</p>