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#### Experience：

麻省理工學院 仿生義肢實驗室 研究員

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#### Professional Positions:

台灣手外科醫學會 候補理事

#### Major Awards:

2024 美國手外科年會 Julian M. Bruner Award

2020 臺灣手外科年會優秀論文首獎

#### 期刊論文

1. Floris V Raasveld, Maximilian Mayrhofer-Schmid, Benjamin R Johnston, Barbara Gomez-Eslava, Yannick A J Hoftiezer, Wen-Chih Liu, Ian L Valerio, Kyle R Eberlin (2024, Oct). Targeted muscle reinnervation at the time of amputation to prevent the development of neuropathic pain. *Journal of Plastic, Reconstructive & Aesthetic Surgery*, 97:13-22.
2. Wen-Chih Liu, Fu-Wei Su, Sheng-You Su, Chen-Hao Chiang, Shu-Hsin Yao, Chia-Lung Shih, Kyle R. Eberlin (2024, Oct). Prevalence and Risk Factors for Chronic Postamputation Pain Requiring Analgesia or Nerve Interventions: A Population-Based Study in East Asia. *Regional Anesthesia & Pain Medicine*. (Accepted). 本人為第一作者.
3. Eva van Vliet, Floris V Raasveld, Wen-Chih Liu, Ian L Valerio, Kyle R Eberlin, Erik T Newman, Mohamed Jarraya, F Joseph Simeone, Jad S Hussein (2024, Sep). Evaluation of MRI

features of neuromas in oncological amputees, and the relation to pain. *Skeletal Radiology*. (Accepted).

4. Floris V Raasveld, Daniel T Weigel, Wen-Chih Liu, Maximilian Mayrhofer- Schmid, Barbara Gomez-Eslava, Vlad Tereshenko, Charles D Hwang, Brian J Wainger, William Renthall, Mark Fleming, Ian L Valerio, Kyle R Eberlin (2024, Sep). Neuroma morphology: A macroscopic classification system. *Muscle & Nerve*. (Accepted).
5. Pietro Regazzoni, Wen-Chih Liu, Lucía Chiquiar, Jesse B Jupiter, Alberto Fernández Dell'Oca (2024, Aug). Letter to the editor in response to "Natural experiments for orthopedic trauma research: An introduction". *Injury*. 2024 Aug 21:111835. doi: 10.1016/j.injury.2024.111835. 本人為通訊作者.
6. Jesse B. Jupiter, Pietro Regazzoni, Wen-Chih Liu, Alberto A. Fernández Dell'Oca (2024, August). The Rationale for A Comprehensive and Fully Transparent Database. *Journal of Bone and Joint Surgery* 2024. (Accepted) 本人為通訊作者.
7. Daniel T Weigel, Floris V Raasveld, Wen-Chih Liu, Maximilian Mayrhofer- Schmid, Charles D Hwang, Vlad Tereshenko, William Renthall, Clifford J Woolf, Ian L Valerio, Kyle R Eberlin (2024, Jun). Neuroma-to-Nerve Ratio: Does Size Matter? *Neurosurgery*. 2024 Sep 9. doi: 10.1227/neu.0000000000003166.
8. Floris V Raasveld, Wen-Chih Liu, Maximilian Mayrhofer-Schmid, Brian J Wainger, Ian L Valerio, William Renthall, Kyle R Eberlin (2024, Jun). Neuroma Analysis in Humans: Standardizing Sample Collection and Documentation. *Journal of Surgical Research*, 298:185-192.
9. Vlad Tereshenko, Charles D. Hwang, Floris V. Raasveld, Wen-Chih Liu, William G. Austen, Jr., Ian L. Valerio, Kyle R. Eberlin (2024, Apr). 47. Unveiling Altered Expression Profiles Of Neural Nociceptive Drivers In Painful Neuroma. *Plastic and Reconstructive Surgery – Global Open*, 12(Suppl ): 33.
10. Floris V Raasveld , Wen-Chih Liu, William Renthall, Mark E Fleming, Ian L Valerio, Kyle R Eberlin (2024, Mar). Heterotopic Ossification Is Associated with Painful Neuromas in Transtibial Amputees Undergoing Surgical Treatment of Symptomatic Neuromas. *Plastic and Reconstructive Surgery*, Online ahead of print. (Accepted).
11. Wen-Chih Liu, Floris V Raasveld, Maximilian Mayrhofer-Schmid, Kyle R Eberlin, Ian L Valerio (2024, Mar). Three Useful Tips and Tricks for Intraoperative Nerve Stimulation. *Plastic and Reconstructive Surgery – Global Open*, 12(3):e5640. 本人為第一作者.
12. Chao Chen, Jing Chen, Wen-Chih Liu, Krystle R. Tũaño (2024, Feb). Overview and management of complications after digital replantations. *Journal of Hand Surgery (European Volume)*, 49(2):167-176. (SCIE, 49/136,Orthopedics).
13. Wen-Chih Liu, Hartwich, M., Locascio, J. J., Regazzoni, P., Jupiter, J. B., Fernandez Dell'Oca (2024, Feb). The association of ICUC trauma score and quick DASH in a distal radius fracture cohort. *Journal of orthopaedic surgery and research*, 19(1), 141. (SCI, 24/136,Orthpedics). 本人為第一作者、通訊作者.
14. Chih-Ting Chen, Shih-Hsiang Chou, Hsuan-Ti Huang, Yin-Chih Fu, Jesse B.Jupiter, Wen-

- Chih Liu (2023, Oct). Comparison of Distal Radius Fracture Plating Surgery under Wide-Awake Local Anesthesia No Tourniquet Technique and Balanced Anesthesia. *Journal of Orthopedic Surgery Research*, 18(1):746. 本人為通訊作者.
15. Pietro Regazzoni, Jesse B. Jupiter, Wen-Chih Liu, Alberto A. Fernández Dell'Oca (2023, Oct). Evidence-Based Surgery: What Can Intra-Operative Images Contribute? *Journal of Clinical Medicine*, 12(21):6809. 本人為通訊作者.
  16. Chung-Chia Chang, Sung-Yen Lin, Chun-Kuan Lu, Jesse B. Jupiter, Yin-Chih Fu, Wen-Chih Liu (2023, Jul). Minimum 5-year assessment of volar plate interposition arthroplasty for post-traumatic osteoarthritis of proximal interphalangeal joints. *Journal of Clinical Medicine*, 12(14):4760. 本人為通訊作者.
  17. Oscar Shen, Chih-Ting Chen, Jesse B Jupiter, Neal Chen, Wen-Chih Liu (2023, Jun). Functional Outcomes and Complications after Treatment of Distal Radius Fracture in Patients Sixty Years and Over: A Systematic Review and Network Meta-analysis. *Injury*, 54(7):110767. 本人為通訊作者.
  18. Pietro Regazzoni, Simon Lambert, Jesse B. Jupiter, Südkamp N, Wen-Chih Liu, Alberto A. Fernández Dell'Oca (2023, Feb). Homogeneity in Surgical Series: Image Reporting to Improve Evidence. *Journal of Clinical Medicine*. *Journal of Clinical Medicine*, 12(4):1583.
  19. Pietro Regazzoni, 劉文智, Jesse B. Jupiter, and Alberto A. Fernandez dell' Oca; Pietro Regazzoni, Wen-Chih Liu, Jesse B. Jupiter<sup>3</sup>, and Alberto A. Fernandez dell'Oca (2022, Nov). Complete Intra-Operative Image Data Including 3D Xrays: A New Format for Surgical Papers Needed? *Journal of Clinical Medicine*, 2022 Nov 28;11(23):7039. (SCI, 39/167, Medicine, General & Internal).
  20. Wen-Chih Liu, Chih-Ting Chen, Cheng-Chang Lu, Yun Che Tsai, Ying-Chun Liu, Chih-Wei Hsu, Chia-Lung Shih, Po-Cheng Chen, Yin-Chih Fu (2022, Jun). Extracorporeal Shock Wave Therapy Shows Superiority Over Injections for Pain Relief and Grip Strength Recovery in Lateral Epicondylitis: A Systematic Review and Network Meta-analysis. *Arthroscopy*, 2022; 38(6):2018-2034.e12. (SCI, 6/86, Orthopedics). 本人為第一作者.
  21. Ying-Sheng Li, Yi-Hsueh Liu, Hung-Da Chou, Hsiang-Jui Tseng, Yin-Chih Fu, Wen-Chih Liu (2022, Jun). Concomitant post-traumatic ocular and cerebral fat embolism syndrome and thrombotic pulmonary embolism: A case report. *Medicine*, 2022; 38(6):2018-2034.e12. (SCI, 99/167, Orthopedics). 本人為通訊作者.
  22. Sung-Yen Lin, Cheng-Jung Ho, Wen-Chih Liu, Jr-Kai Chen, Hung-Pin Tu, Tien-Ching Lee, Je-Ken Chang, Chung-Hwan Chen, Cheng-Chang Lu (2022, Jun). Predicting the poor clinical and radiographic outcomes after anatomical reduction and internal fixation of posterior wall acetabular fractures: a retrospective analysis. *Journal of Clinical Medicine*, 2022 Jun 6;11(11):3244. (SCI, 39/167, Orthopedics).
  23. Wen-Chih Liu, Chih-Hau Chang, Chung-Hwan Chen, Chun-Kuan Lu, Chun-Hsien Ma, Shin-I Huang, Wei-Lun Fan, Hsin-Hsin Shen, Pei-I Tsai, Kuo-Yi Yang, and Yin-Chih Fu (2022, Apr). 3D-Printed Double-Helical Biodegradable Iron Suture Anchor: A Rabbit Rotator Cuff Tear Model. *Materials*, 2022 Apr 11;15(8):2801. (SCI, 17/80). 本人為第一作者.

24. Chih-Yao Lee, Po-Cheng Chen, Ying-Chun Liu, YunChe Tsai, Pei-Hsi Chou, Yin-Chih Fu, Wen-Chih Liu, Jesse B. Jupiter (2022, Apr). Does coracoclavicular augmentation additional to hook plate fixation provide benefits in acute unstable acromioclavicular dislocation? A meta-analysis. *BMC Musculoskeletal Disorder*, 2022; 23(1):205. (SCI, 42/82, Orthopedics). 本人為通訊作者.
25. Wen-Chih Liu, I-Cheng Lu, Chung-Chia Chang, Chih-Ting Chen, Chia-Lung Shih, Yin-Chih Fu, Jesse B. Jupiter (2022, Feb). Less Fluctuation in Hemodynamics of the WideAwake Local Anesthesia No Tourniquet Technique Than General Anesthesia in Distal Radius Plating Surgery: A Prospective Case-Control Study. *Journal of Clinical Medicine*, 2022 Feb 21;11(4):1123. (SCI, 39/167, MEDICINE, GENERAL & INTERNAL). 本人為第一作者.
26. Chien-Cheng Tai, Hon-Lok Lo, Chen-Kun Liaw, Yu-Min Huang, Yen-Hua Huang, KuoYi Yang, Chih-Chieh Huang, Shin-I Huang, Hsin-Hsin Shen, Tzu-Hung Lin, Chun-Kuan Lu, Wen-Chih Liu, Jui-Sheng Sun, Pei-I Tsai, Chih-Yu Chen (2021, Jul). Biocompatibility and Biological Performance Evaluation of AdditiveManufactured Bioabsorbable IronBased Porous Suture Anchor in a Rabbit Model. *International journal of molecular sciences*. (SCI, 67/295, Biochemistry & Molecular Biology).
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28. Hsiang-Jui Tseng, Hon-Lok Lo, Yu-Chuan Lin, Wen-Chih Liu, Sung-Yen Lin, Pei-Hsi Chou, Cheng-Chang Lu (2021, May). Analyze the Differential Rates of Anterior Cruciate Ligament Injuries Between Men and Women by Biomechanical Study of Single-Leg Landing in Badminton. *Indian Journal of Orthopaedics*, 2021;55(Suppl 2):409-417. (SCI, 68/82, Orthopedics).
29. Chun-Kuan Lu, Wen-Chih Liu, Chung-Chia Chang, Chia-Long Shih, Yin-Chih Fu, Jesse B. Jupiter (2020, Sep). A systematic review and metaanalysis of the pronator quadratus repair following volar plating of distal radius fractures. *Journal of Orthopedic Surgery Research*, 2020 Sep 16;15(1):419. (SCI, 46/82, Orthopedics). 本人為通訊作者.
30. Po-Chih Shen, Shih-Hsiang Chou, Cheng-Chang Lu, Yin-Chih Fu, Chun-Kuan Lu, Wen-Chih Liu, Peng-Ju Huang, Yin-Chun, Tien, Chia-Lung Shih (2020, Sep). Comparative effectiveness of various treatment strategies for trigger finger by pairwise meta-analysis. *Clinical Rehabilitation*, 2020 Sep;34(9):1217-1229. (SCI, 13/68, Rehabilitation).
31. Wen-Chih Liu, Chih-Hau Chang, Chang-Chang Lu, Yin-Chih Fu, Chun-Kuan Lu (2020, Jun). Reconstruction of Massive Knee Defects with Extensor Mechanism Deficiency through Concurrent Anterolateral Thigh Flap and Autogenous Hamstring Tendon: Two cases report. *Journal of Orthopedic Surgery*, 2020 Jan-Apr;28(2):2309499020935994. (SCI, 65/82, Orthopedics). 本人為第一作者.
32. Wen-Chih Liu, Yin-Chih Fu, Chun-Kuan Lu (2019, Nov). Vascular compromise during wide-awake local anaesthesia no tourniquet technique for distal radial plating: a case report. *Journal of Hand Surgery(European Volume), J Hand Surg Eur Vol*. 2019 Nov;44(9):980-

983. (SCI, 30/76,Orthopeidcs). 本人為第一作者.

### 研討會論文

1. Wen-Chih Liu, Floris V. Raasveld, Maximilian Mayrhofer-Schmid, Justin McCarty, Ian L. Valerio, Kyle R. Eberlin (2024, Sep). The long-term Postoperative Pain Course Following Primary and Secondary Targeted Muscle Reinnervation in Amputees. 79th Annual Meeting of the American Society for Surgery of the Hand, Minneapolis. 本人為第一作者.
2. Jayanth Pratap, Siyeop Yoon, Wen-Chih Liu, Quanzheng Li, Abhiram Bhashyam, Neal Chen, Xiang Li (2024, May). Zero-Shot Novel View Synthesis of Wrist XRays Using Latent Diffusion Model. 2024 IEEE International Symposium on Biomedical Imaging, Athens.
3. Siyeop Yoon, Jay Sairam Pratap, Wen-Chih Liu, Matthew Tivnan, Hui Ren, Abhiram Bhashyam, Quanzheng Li, Neal Chen, Xiang Li (2024, May). High- Resolution 3d Ct Synthesis From Bidirectional X-Ray Images Using 3d Diffusion Model. 2024 IEEE International Symposium on Biomedical Imaging, Athens.
4. Wen-Chih Liu, Oscar Shen, Chih-Ting Chen, Jesse B Jupiter, Neal Chen (2023,Oct). Functional Outcomes and Complications after Treatment of Distal Radius Fracture in Patients Sixty Years and Over: A Systematic Review and Network Meta-analysis. 78th American Society of Surgery of the Hand Annual Meeting, Toronto, Canada. 本人為第一作者、通訊作者.
5. Wen-Chih Liu, Jayanth Pratap, Abhiram R. Bhashyam, Neal C. Chen, Quanzheng Li, and Xiang Li (2023, Aug). Recent Advances in Sparse and Ultra-Sparse Reconstruction for Medical Imaging. Optica Imaging Congress (3D,COSI, DH, FLatOptics, IS, pcAOP), Boston. 本人為第一作者.
6. Chih-Ting Chen, Yin-Chih Fu, Chun-Kuan Lu, Jesse B. Jupiter, Wen-Chih Liu(2022, Sep). Comparable reduction quality and functional outcomes were achieved in distal radius fracture plating surgeries performed under WALANT and GA. 77th American Society of Surgery of the Hand Annual Meeting, Boston.本人為通訊作者.
7. Wen-Chih Liu (2019, Nov). Vascular compromise during wide-awake local anaesthesia no tourniquet technique for distal radial plating: a case report. 5th Congress of Asia-Pacific Wrist Association , The Catholic University of Korea, Seoul. 本人為第一作者、通訊作者.
8. Wen-Chih Liu ( 2019年04月 )。WALANT at a glance: From theory to clinical application。中華民國骨科醫學會108年度第76次春季聯合學術研討會 , 台中榮民總醫院。本人為第一作者、通訊作者。