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Academic Appointments

Professor, National Yang Ming Chiao Tung University, Institute of Statistics, 2023.08-Present

Joint Appointment Professor, National Yang Ming Chiao Tung University, Institute of Data Science and Engineering, 2023.08-Present

Adjunct Faculty, National Yang Ming Chiao Tung University, Institute of Traditional Chinese Medicine, 2024.08-Present

Joint Appointment Professor, National Dong Hwa University, Institute of Applied Mathematics, 2024.08-Present

Joint Appointment Professor, National Dong Hwa University, Institute of Biochemical and Molecular Medical Sciences, 2024.08-Present

Education

- Harvard University, School of Public Health (HSPH), Boston, M.A.
Master of Science (ScM), Department of Biostatistics (2014 – 2016)
Doctor of Science (ScD), Department of Epidemiology (2011 – 2016)
 - Concentration: Epidemiologic Method (Causal inference program)
 - Thesis advisor: Dr. Tyler VanderWeele
 - Committee members: Dr. Miguel Hernan, Dr. Eric Tchetgen Tchetgen
 - Major Field of Study: General epidemiology
 - Minor Fields of Study: Biostatistics, Neurological and Psychiatric Epidemiology
- National Taiwan University (NTU), Taipei, Taiwan
Medical doctor (M.D.), Department of Medicine (2003 – 2010)

Research Highlight

- Methodology: Epidemiologic method, biostatistics, causal inference, mediation analysis, time-varying system.
- Application: Epidemiology, decision science, cost-effectiveness analysis, psychiatry, behavior addiction, portable medical device, heart rate variability.

Research Support

Principal Investigator

National Science and Technology Council (NSTC)

- Paradigm Shift and Framework Restructuring in Causal Mediation Analysis: Are We Misled by Robins and Pearl's Standard Definitions? [NSTC 114-2628-M-A49 -002 -MY4] Project Period: 2025.08.01 – 2029.7.31
- Promoting the reputation and influence of domestic statistics discipline: IASC-ARS BoD Ordinary member's implementation plan in 2025 [NSTC114-2926-I-A49-503-] Project Period: 2025.10.01 – 2026.09.30
- Promoting the reputation and influence of domestic statistics discipline: IASC-ARS Executive Secretary's implementation plan. [112-2926-I-A49-504] Project Period: 2023.07.01 – 2023.12.31
- Causal Mediation Analysis in longitudinal studies with death truncation and time-varying multiple mediators and precision mediation. [MOST 111-2628-M-A49 -004 -MY3] Project Period: 2022.08.01 – 2025.7.31
- Causal inference and mechanism investigation through machine learning methodology. 108-2636-B-009 -001. Project Period: Feb 1, 2018 – Jan 31, 2023. Principal Investigator. 85% Effort. (USD 1,058,167 – 5 years)
- Causal mediation and interaction analysis with multiple mediators.106-2118-M-009-004-MY2. Project Period: 2017.10.1 – 2019.07.31 Principal Investigator. 70% Effort. (USD 41,600 – 2 years)

Ministry of Education (MOE)

- Regressing "Regression" to its original essence - Enhancing Learning Motivation and Research Awareness through Project-Based Proposal Writing in regression course. MOE Teaching Practice Research Program. Project Period: 2025.08.01 – 2026.7.31
- Course development for causal inference theory-Enhancing media literacy education by applying qualitative causal inference to the criticism of false causal messages. MOE Teaching Practice Research Program. Project Period: 2023.08.01 – 2024.7.31
- Course development of “Advanced Causal Inference” – Adapting “Writing-Intensive Course” framework and “Virtue Peer-Review” field for elevating the literacy for scientific writing.MOE Teaching Practice Research Program.Project Period: 2022.08.01 – 2023.7.31
- Course development for causal inference theory – Integration of problem-based learning and journal reading seminar. MOE Teaching Practice Research Program. Project Period: 2021.08.01 – 2022.7.31

Hospital Collaboration Project

- To assist the Nurse Practitioner Committee in Developing a New Way to Setting Advance Directives Using Healthcare GPT. Integrated research project between Cheng Hsin General Hospital and National Yang-Ming Chiao Tung University. Period: 2025.01.01 – 2025.12.31

Internal Project (NYCU)

- Development of causal machine learning model to investigate pathological mechanism of Parkinson's Disease mediated and moderated by genomic, transcriptomic, and intestinal microbiomic factors. Period: 2023.09.01 – 2023.12.31

Co-Principal Investigator

National Science and Technology Council (NSTC)

- Principal Investigator: Dr. Jacky Chung-Hao Wu. Project Title: Combining Online Learning and Deep Learning for Streaming Predictions. Project Period: 2025.12.01 – 2026.11.30
- Integrated Research Project. Principal Investigator: Dr. Tsung-Chieh Yao. Project Title: Utilizing Clinical Big Data and AI Technologies to Construct Personalized Disease Risk Models for Predicting or Preventing the Onset of Pediatric Allergic Diseases. Project Period: 2025.05.01 – 2029.04.30
- Early-Career Research Project. Principal Investigator: Dr. Shih-Chen Fu. Project Title: Precision Profiling of Oral Microbiota in OSCC Patients Using Ensemble Algorithms: Unraveling Biomarkers for OSCC and its Postoperative Complications. [113-2314-B-259-001-MY3] Project Period: 2024.08.01 – 2027.7.31

- Leading International Collaboration in Precision Medicine for MDD: A Novel Genomic-Epigenomic Approach with Clinical, Consortium, and Biobank Data (1/4).[NSTC 113-2628-B-400-002] Period: 2024.08.01 – 2025.7.31
- Analyzing the effects of occupational health policies on overworkrelated diseases: mediating factors, forces that drive national policy change, and potential gaps in the research 107-2314-B-039 -062 -MY3. Project Period: 2018.08.01 – 2021.7.31 (Principal Investigator: Dr. Ro-Ting Lin)
- Testing for Agonistic Interactions for Causal-Pie Modeling in Long-Term Follow-Up Studies 108-2314-B-002 -MY2 ◦ Project Period: 2019.08.01 – 2021.7.31 (Principal Investigator: Dr. Tzu-Pin Lu)

Hospital Collaboration Project

- Reconstruction of Spatial Navigation Ultrasound 3D Models Based on Image Deep Learning Project. Cooperation project between Taichung Veterans Hospital and National Yang-Ming Chiao Tung University. Period: 2025.01.01 – 2025.12.31

Industry Cooperation Project

- Artificial Intelligence for Financial Science and Technology (3rd period). (E.SUN Bank). Project Period: 2023.08.01 – 2024.7.31

Boards

- Medical license in Taiwan (2010.08 - Present)

Professional Affiliations (past and present)

- American Statistics Association (ASA)
- Society for Epidemiologic Research (SER)
- International Society of Pharmacoeconomics and Outcomes Research (ISPOR)
- Occupational Hygiene Association of Taiwan (TOHA)
- The Chinese Institute of Probability and Statistics (CIPS)
- Chinese Statistical Association Taiwan (CSAT)
- Taiwan Public Health Association (TPHA)

Work Experience

Teaching Assistant, Harvard University (Fall 2014)

- Course: Decision Analysis for Health and Medical Practices (RDS 280)
- Instructor: Professor Joseph Pliskin

Research Assistant, Department of Epidemiology and Biostatistics, School of Public Health, Harvard University (2012.09 – 2013.05)

Medication Substitute Services Draftee, Department of Health, Executive Yuan, R.O.C. (Taiwan) (2010.08 – 2011.07)

Internship Physician, National Taiwan University Hospital, Taipei, Taiwan (2009.06 – 2010.05)

Clerkship Physician, National Taiwan University Hospital, Taipei, Taiwan (2007.06 – 2009.05)

Research Experience

National Yang Ming Chiao Tung University, Institute of Statistics (2021.02-2023.07)

Position: Associate Professor

National Yang Ming Chiao Tung University, Institute of Data Science and Engineering (2021.02-2023.07)

Position: Joint Appointment Associate Professor

National Chiao-Tung University, Institute of Statistics (2020.08-2021.01)

Position: Associate Professor

National Chiao-Tung University, Institute of Statistics (2017.08-2020.07)

Position: Assistant Professor

National Chiao-Tung University, Institute of Data Science and Engineering (2018.08-2020.07)

Position: Joint Appointment Assistant Professor

Columbia University, Mailman School of Public Health, Department of Biostatistics, New York, NY (2016.06 – 2017.06)

Position: Postdoctoral research scientist

Advisor: Dr. Iuliana Ionita-Laza

HSPH, Department of Epidemiology and Biostatistics, Boston, M.A. (2014.01 – 2016.05)

Position: Doctoral student; Part-time research assistant

Advisor: Professor Tyler J. VanderWeele

HSPH, Department of Epidemiology and Biostatistics, Boston, M.A. (2012.09 – 2013.05)

Position: Research Assistant

Advisor: Professor Eric J. Tchetgen Tchetgen

NTU, Institute of Occupational Medicine and Industrial Hygiene, College of Public Health, Taipei, Taiwan (2008 – 2010)

Advisor: Professor Jung-Der Wang

Visiting Scholar

HSPH, Department of Epidemiology, Boston, M.A. (2019.06)

Position: Visiting Scholar

Collaborator: Dr. Albert Hofman

Institute of Statistics and Applied Probability, National University of Singapore (2019.01)

Position: Visiting Scholar

Collaborator: Dr. BaoLuo Sun

HSPH, Department of Epidemiology, Boston, M.A. (2018.11)

Position: Visiting Scholar

Collaborator: Dr. Albert Hofman

Icahn School of Medicine at Mount Sinai (2018.11)

Collaborator: Ling-shiang Chuang, Ph.D

Position: Visiting Scholar

RIKEN Center for Biosystems Dynamics Research (2018.09)

Collaborator: Nobuyuki Tanaka, Ph.D.

Position: Visiting Scholar

Erasmus Medical Center, Rotterdam, the Netherlands (2018.08)

Position: Visiting Scholar

Collaborator: M. Arfan Ikram

Institute of Statistics, Academia Sinica, Taiwan (2017.09-2017.12)

Position: Visiting Scholar

Collaborator: Dr. Yen-Tsung Huang

Erasmus Medical Center, Rotterdam, the Netherlands (2016.06)

Position: Postdoctoral Visiting Scholar

Advisor: Professors Tyler VanderWeele, Albert Hofman (Harvard Chan School), M. Arfan Ikram, Sonja Swanson (Erasmus Medical Center)

Honors and Awards

Scholarship

- Taiwanese Government Scholarships for Overseas Study (GSOS): Full Scholarships (Sept 2012 to May 2015)
(Awarded annually to top outstanding student in a specific field.)
- Harvard Club of the Republic of China Scholarship (2011-2012)
(Awarded annually to top four new Harvard graduate students.)
- Government scholarship to study abroad by the Ministry of Education (2011-2012)
(Awarded to outstanding students who study abroad for specific field.)
- Department of Epidemiology Tuition Award (2011-2016)
- Taiwanese Physicians Scholarship (2015-2016)
- Taiwanese Physicians Stipend (2015-2016)

Awards

- 114-2 Encourage Teaching Award (from National Yang Ming Chiao Tung University) 2026.02
- The 2nd Leap Lecture Award - Biomedical Group (from Foundation For The Advancement of Outstanding Scholarship) 2026.01
- Chinese Statistical Association (Taiwan) (CSAT) Thesis Professor Award 2025.10
 - Student: Wang Chen-Chia / Merit Award
- 114-1 Encourage Teaching Award (from National Yang Ming Chiao Tung University) 2025.09
- CIPS Professor Wen-Jang Huang Young Scholar Award (Applied Category) 2025.05
- 113-2 Encourage Teaching Award (from National Yang Ming Chiao Tung University) 2025.02
- Chinese Statistical Association (Taiwan) (CSAT) Thesis Professor Award 2024.10
 - Student: Duan Yi-Chen / Merit Award
 - Student: Zhang Yun-Hao / Excellent Work Award
- 113-1 Encourage Teaching Award (from National Yang Ming Chiao Tung University) 2024.09
- 112-2 Encourage Teaching Award (from National Yang Ming Chiao Tung University) 2024.02
- 112-1 Encourage Teaching Award (from National Yang Ming Chiao Tung University) 2023.10

- 111-1 Innovative Featured Courses: Course Outstanding Award for the course “Causal Inference” (from National Yang-Ming Chiao Tung University) 2023.09
- Hsinchu Outstanding Youth Award for Social Service (from China Youth Corps) 2023.03
- 111-2 Encourage Teaching Award (from National Yang Ming Chiao Tung University) 2023.02
- Chinese Statistical Association (Taiwan) (CSAT) Thesis Professor Award 2022.11
 - Student: Hsia Pei-Hsuan / Excellent Work Award
 - Student: Hsieh Yi-Chen / Excellent Work Award
 - Student: Wu Pei-Hua / Excellent Work Award
- 111-1 Encourage Teaching Award (from National Yang Ming Chiao Tung University) 2022
- Excellent Teaching Award, College of Sciences, National Yang Ming Chiao Tung University, 2022.06
- Chinese Statistical Association (Taiwan) (CSAT) Thesis Professor Award 2021.12
 - Student: Liao Le-Shiuan / Excellent Work Award
- 110-1 Encourage Teaching Award (from National Yang Ming Chiao Tung University) 2021
- The 9th Young Scholar Creation Award (from Foundation For The Advancement of Outstanding Scholarship) 2021
- Chinese Statistical Association (Taiwan) (CSAT) Thesis Professor Award 2020.12
 - Student: Tsai Chun-An / Excellent Work Award
 - Student: Du Yi-Juan / Excellent Work Award
- Junior Chair Professor, National Chiao-Tung University (Lee Chen Junior Chair Professor) (2017-2020)
- Chinese Statistical Association (Taiwan) (CSAT) Thesis Professor Award 2019.12
 - Student: Liang Ying-Wen / Excellent Work Award
 - Student: Lin Shr-Wen / Excellent Work Award
- Young Scholar Research Award (from the College of Science, National Chiao Tung University (2019.04)
- MOST Young Scholar Fellowship (from the Ministry of Science and Technology) (2018.10)
- Rose Traveling Fellowship (2016)
- Outstanding Youth, Medical School, National Taiwan University (2010)
(Awarded to academically outstanding undergraduate students.)
- College Entrance Examination in Taiwan (2003)
Second highest score among all applicants (approximate 100,000) to the universities in Taiwan.

International Math/Physics Olympiad Competition

- Honor Medal of the Asia Pacific Mathematic Olympiad (2003)
(Awarded to the top ten participants from each country)
- Silver Medal of the 33rd International Physics Olympiad, Bali, Indonesia (2002)
(Awarded to the top 18% participants from each country)
- Gold Medal of the 3rd Asia Physics Olympiad, Singapore (2002)
(Awarded to the top 6% participants from each country)
- Brown Medal of the 2nd Asia Physics Olympiad, Taipei, Taiwan (2001)
(Awarded to the top 36% participants from each country)

Awards for academic writing and presentation

- Reuel Stallones Student Prize Paper Award (2016)
(Awarded to the top three students in SER conference)
- Foundation of Taiwan Medical Development Awards for Outstanding Writings (2009)
(Awarded to the top six undergraduate medical students with outstanding paper and presentations.)
- Scholarship of Dian-Sheng Corporation Limited (2009)
(Awarded to academically outstanding undergraduate students coming from economically disadvantaged families.)

- The 29th Occupational Hygiene Association of Taiwan Conference, Awards for Outstanding Writings (2009)
(Awarded for outstanding paper and presentation in the conference, ranked top two.)
- Outstanding Students Conference Travel Grant, Foundation for the Advancement of Outstanding Scholarship (2009)
(Awarded for outstanding papers and presentations at an international conference.)
- Outstanding Students Conference Travel Grant, Aim for the Top University Plan, National Taiwan University College of Medicine (2009)
(Awarded to medical students in the College of Medicine of National Taiwan University College of Medicine with outstanding papers and presentations in international conference.)

Articles in Peer-Reviewed Journals

(* : corresponding author; ** co-first or co-corresponding author)

Methodology of Epidemiology and Biostatistics

1. Yan-Lin Chen, Yun-Hao Chang, **Sheng-Hsuan Lin***. “Targeted maximum likelihood estimation for mediation analysis with multiple time-varying mediator” , *Biometrics*.2026.(IF: 1.7; Category: Biology; Rank: 52/107 (Q2)) (Accepted)
2. Yan-Lin Chen, Hsiang-Hsi Hung, **Sheng-Hsuan Lin***. “Sensitivity bounds for bias in hazard ratios: A causal hazard perspective” , *Statistical Methods in Medical Research*.2026 (IF: 1.9; Category: statistics & probability; Rank: 36/169 (Q1)) (Accepted)
3. Pei-Hsuan Hsia , An-Shun Tai, Shih-Chen Fu, **Sheng-Hsuan Lin***. “On identification and estimation for sufficient cause interaction through a quasi-instrumental variable” , *Statistical Methods in Medical Research*,2025.9.30, Volume 34, Issue 12 (IF: 1.9; Category: statistics & probability; Rank: 36/169 (Q1)) <https://doi.org/10.1177/09622802251376236>
4. Yan-Lin Chen, Tsung Yu, Sheng-Hsuan Lin*, “Causal mediation analysis with mediator-outcome confounders affected by exposure – on definition and identification of generalized natural indirect effect” , *Epidemiology* (IF:4.7; Category: Public, Environmental & Occupational Health; Rank: 41/408(Q1)) (Accepted)
5. Yan-Lin Chen, **Sheng-Hsuan Lin*** , “On definition and interpretation of separable path-specific effects with multiple ordered mediators”, *Epidemiology* , June 03, 2025. (IF:4.7; Category:Public, Environmental & Occupational Health; Rank: 41/408(Q1)) [DOI:10.1097/EDE.0000000000001887](https://doi.org/10.1097/EDE.0000000000001887)
6. Shu-Chin Lin, **Sheng-Hsuan Lin**, Tian Ge, Chia-Yen Chen*, Yen-Feng Lin*.“Causal Mediation Analysis: A Summary-Data Mendelian Randomization Approach”, *Statistics in Medicine*,2025, Volume44, Issue5, e10317 (IF:1.8; Category: Statistics & Probability; Rank: 32/168(Q1)) <https://doi.org/10.1002/sim.10317>
7. An-Shun Tai, **Sheng-Hsuan Lin***.“Multiply robust estimation of natural indirect effects with multiple ordered mediators” , *Statistics in Medicine*,2023, Volume43, Issue4, Pages 656-673 (IF: 2.0; Category: Statistics & Probability; Rank: 57/164(Q2)) <https://doi.org/10.1002/sim.9977>
8. An-Shun Tai , **Sheng-Hsuan Lin***.“Complete effect decomposition for an arbitrary number of multiple ordered mediators with time-varying confounders: A method for generalized causal multi-mediation analysis” , *Statistical Methods in Medical Research*,2022, Volume 32, Issue 1 (IF: 2.494; Category: Statistics & Probability; Rank: 27/125(Q1)) <https://doi.org/10.1177/09622802221130580>
9. Jui-Hsiang Lin , An-Shun Tai , **Sheng-Hsuan Lin***. “Population attributable fraction based on marginal sufficient component cause model for mediation settings” , *Annals of Epidemiology*,2022, Volume75:57-66 (IF:6.996; Category: Public, Environmental & Occupational Health; Rank: 31/210(Q1)) <https://doi.org/10.1016/j.annepidem.2022.08.050>

10. An-Shun Tai , **Sheng-Hsuan Lin***, Yu-Cheng Chu , Tsung Yu , Milo A. Puhan, Tyler VanderWeele. “Causal mediation analysis with multiple time-varying mediators”, *Epidemiology* 2023;34(1):8–19 (IF: 4.822; Category: Public, Environmental & Occupational Health; Rank: 35/203(Q1)) doi: [10.1097/EDE.0000000000001555](https://doi.org/10.1097/EDE.0000000000001555)
11. An-Shun Tai, Pei-Hsuan Lin, Yen-Tsung Huang, **Sheng-Hsuan Lin***. “Path-specific effects in the presence of a survival outcome and causally ordered multiple mediators with application to genomic data”, *Statistical Methods in Medical Research*,2022 ((IF: 3.021; Category: Statistics & Probability; Rank: 22/125(Q1)) <https://doi.org/10.1177/09622802221104239>
12. An-Shun Tai, Le-Hsuan Liao, and **Sheng-Hsuan Lin***. “On the conventional definition of path-specific effects - fully mediated interaction with multiple ordered mediators”, *Epidemiology* 2022;33(6):817–827 (IF: 4.822; Category: Public, Environmental & Occupational Health; Rank: 35/203(Q1)) doi: [10.1097/EDE.0000000000001520](https://doi.org/10.1097/EDE.0000000000001520)
13. An-Shun Tai, **Sheng-Hsuan Lin***.” Identification and robust estimation of swapped direct and indirect effects: Mediation analysis with unmeasured mediator–outcome confounding and intermediate confounding”,*Statistics in Medicine*,2022,41(21):4143-4158.(IF: 1.9592; Category: statistics & probability; Rank: 28/124 (Q1)) DOI:<https://doi.org/10.1002/sim.9501>
14. An-Shun Tai, Yi-Juan Du, **Sheng-Hsuan Lin***.”Robust inference on effects attributable to mediators: A controlled-direct-effect-based approach for causal effect decomposition with multiple mediators” , *Statistics in Medicine*,2022,41(10):1797-1814.(IF: 1.9592; Category: statistics & probability; Rank: 28/124 (Q1)) DOI: <https://doi.org/10.1002/sim.9329>
15. An-Shun Tai ,Yen-Tsung Huang ,Hwai-I Yang ,Lauren V. Lan ,**Sheng-Hsuan Lin***,”G-computation to causal mediation analysis with sequential multiple mediators – investigating the vulnerable time window of HBV activity for the mechanism of HCV induced hepatocellular carcinoma” , *Frontiers in Public Health*.2021 (SSCI, IF: 3.709; Category: public, environmental & occupational health; Rank: 36/176 (Q1)) DOI: <https://doi.org/10.3389/fpubh.2021.757942>
16. An-Shun Tai, **Sheng-Hsuan Lin***. ”Integrated multiple mediation analysis: A robustness–specificity trade-off in causal structure” , *Statistics in Medicine*,2021,40(21):4541-4567 (IF: 1.9592; Category: statistics & probability; Rank: 28/124 (Q1)) DOI: <https://doi.org/10.1002/sim.9079>
17. An-Shun Tai , Chun-An Tsai, **Sheng-Hsuan Lin***. “Survival mediation analysis with the death-truncated mediator – on the completeness of survival mediation parameter”, *Statistics in Medicine*. 2021,40(17):3953-3974 (IF: 1.9592; Category: statistics & probability; Rank: 28/124 (Q1)) DOI: <https://doi.org/10.1002/sim.9008>
18. Yen-Tsung Huang, An-Shun Tai, Meng-Ying Chou, Geng-Xian Lin, **Sheng-Hsuan Lin***. “Six-way decomposition of causal effects: Unifying mediation and mechanistic interaction” *Statistics In Medicine*, 2020,39(27):4051-4068. (IF: 1.9592; Category: statistics & probability; Rank: 28/124 (Q1)) DOI: <https://doi.org/10.1002/sim.8708>
19. Jui-Hsiang Lin, Kuan-I Lin, Wen-Chung Lee, **Sheng-Hsuan Lin***. “Stochastic approach for mechanistic interaction under longitudinal studies with noninformative right censoring” *Statistics in Medicine*, 2019, 39(2):114-128. (IF: 1.9592; Category: statistics & probability; Rank: 28/124 (Q1)) DOI: <https://doi.org/10.1002/sim.8401>
20. **Sheng-Hsuan Lin**, Mohammad Arfan Ikram*. "On the relationship of machine learning with causal inference" *European Journal of Epidemiology*, 2019, 1-3. (IF:8.082; Category: Public, Environmental & Occupational Health; Rank: 12/203 (Q1)) DOI: <https://doi.org/10.1007/s10654-019-00564-9>

21. **Sheng-Hsuan Lin**, Yen-Tsung Huang*, Hwai-I Yang. "On identification of agonistic interaction: Hepatitis B and C interaction on hepatocellular carcinoma" *Statistics in Medicine*, 2019, 38(13):2467-2476. (IF: 1.9592; Category: statistics & probability; Rank: 28/124 (Q1)) DOI: <https://doi.org/10.1002/sim.8123>
22. **Sheng-Hsuan Lin**, Jessica G. Young, Roger Logan, Tyler J. VanderWeele. "Mediation analysis for a survival outcome with time-varying exposures, mediators, and confounders", *Statistics in Medicine*, 2017, 36(26):4153-4166. (IF: 1.9592; Category: statistics & probability; Rank: 28/124 (Q1)) DOI: <https://doi.org/10.1002/sim.7426>
23. **Sheng-Hsuan Lin***, Jessica G. Young, Roger Logan, Eric TchetgenTchetgen, Tyler J. VanderWeele. "Parametric mediational g-formula approach to mediation analysis with time-varying exposures, mediators, and confounders", *Epidemiology (Cambridge, Mass.)*, 2017, 28(2):266-274. (IF: 4.897; Category: Public, Environmental & Occupational Health; Rank: 33/203(Q1)) DOI: <https://doi.org/10.1097/EDE.0000000000000609>
24. **Sheng-Hsuan Lin***, Tyler J. VanderWeele. "Interventional Approach for Path-Specific Effects", *Journal of Causal Inference*, 2017, 5(1):20150027. (IF:3; Category: Social Sciences, Mathematical Methods; Rank:12/52(Q1)) DOI: <https://doi.org/10.1515/jci-2015-0027>

Environmental & Occupational Epidemiology

1. Pei-Chen Lee , Chih-Da Wu , Hui-Ju Tsai , Hsin-Yun Tsai , **Sheng-Hsuan Lin** , Chia-Kai Wu , Chi-Yen Hung , Tsung-Chieh Yao. "Residential greenness and birth outcomes: Evaluating the mediation and interaction effects of particulate air pollution", *Ecotoxicology and Environmental Safety*, 2021, Volume 211. (IF: 6.291; Category: Environmental Sciences; Rank: 40/274(Q1)) DOI: <https://doi.org/10.1016/j.ecoenv.2021.111915>
2. Ro-Ting Lin, Ying-Wen Liang, Masaya Takahashi, Hisashi Eguchi, Akizumi Tsutsumi, **Sheng-Hsuan Lin***. "Effect of implementing an overwork-prevention act on working hours and overwork-related disease: A mediation analysis", *Journal of Occupational Health*, 2020, 62(1):e12148. (IF: 2.708; Category: Public, Environmental & Occupational Health; Rank: 99/203(Q2)) DOI: <https://doi.org/10.1002/1348-9585.12148>
3. **Sheng-Hsuan Lin**, Meng-Ying Chou, Ro-Ting Lin*. "Mediation analysis for new recognition criteria, working hours and overwork-related disease: A nationwide ecological study using 11-year follow-up data in Taiwan" *BMJ Open*, 2019, 9(7):e028973. (IF: 2.692; Category: Medicine, General & Internal; Rank: 64/169 (Q2)) DOI: <http://dx.doi.org/10.1136/bmjopen-2019-028973>
4. **Sheng-Hsuan Lin**, Hsin-Yi Lee, Yu-Yin Chang, Yuh Jang, Jung-Der Wang*. "Estimation of life expectancies and loss-of-life expectancies for workers with permanent occupational disabilities of the extremities - a 21-year follow-up study", *Scandinavian Journal of Work, Environment & Health*, 2012, 38(1):70-77. (IF: 5.024 ; Category: Public, Environmental & Occupational Health; Rank: 31/203 (Q1)) DOI: <https://doi.org/10.5271/sjweh.3194>
5. **Sheng-Hsuan Lin**, Hsin-Yi Lee, Yu-Yin Chang, Yuh Jang, Pau-Chung Chen, Jung-Der Wang*. "Increased mortality risk for workers with a compensated, permanent occupational disability of the upper or lower extremities: A 21-year follow-up study", *American Journal of Epidemiology*, 2010, 171(8):917-923. (IF: 5.036; Category: Public, Environmental & Occupational Health; Rank: 12/172 (Q1)) DOI: <https://doi.org/10.1093/aje/kwq003>

Psychiatric Epidemiology

1. **Sheng-Hsuan Lin**, Kuan-Pin Su, Hsiao-Hui Tsou, Pei-Hsuan Hsia , Yu-Hsuan Lin*. "Search Volume of Insomnia and Suicidal Ideation as Digital Footprints of Global Mental Health during COVID-19 Pandemic: Three-Year Infodemiology Study , Journal of Medical Internet Research ,Vol 27 (2025) (IF: 5.8; Category: Health Care Sciences & Services; Rank:10/174(Q1)) [doi: 10.2196/67646](https://doi.org/10.2196/67646)
2. **Sheng-Hsuan Lin**, Yu-Tung Lan, Pei-Hsuan Hsia, Chu-Lan Kao, Hsiao-Hui Tsou, Yu-Hsuan Lin*. "Internet Searches for “Insomnia” and “Suicide” Mediated by Stay-at-Home Behaviors in 45 Countries during the First 12 Months of the COVID-19 Pandemic" , Journal of Affective Disorders,2023,Volume 325:119-126 (IF: 6.533; Category: Clinical Neurology; Rank: 29/212(Q1)) <https://doi.org/10.1016/j.jad.2022.12.139>
3. Yu-Hsuan Lin* , **Sheng-Hsuan Lin**, Susan Shur-Fen Gau. "Screen Timing May Be More Likely Than Screen Time to Be Associated With the Risk of Autism Spectrum Disorder", JAMA Pediatrics, 2022,176(8):824-825. (IF:16.193; Category: Pediatrics; Rank: 1/129 (Q1)) [doi: 10.1001/jamapediatrics.2022.1516](https://doi.org/10.1001/jamapediatrics.2022.1516)
4. Yu-Hsuan Lin* , **Sheng-Hsuan Lin**, I-Ming Chen . "The Direct Effect of Cognitive Behavioral Therapy for Insomnia on Depression Prevention and the Mediation Effect via Insomnia Remission", JAMA Psychiatry, 2022;79(5):514–515 (IF:21.596; Category: Psychiatry; Rank: 3/156 (Q1)) [doi:10.1001/jamapsychiatry.2022.0149](https://doi.org/10.1001/jamapsychiatry.2022.0149)
5. Yi-Lun Wu, **Sheng-Hsuan Lin**, Yu-Hsuan Lin*. "Two-dimensional taxonomy of internet addiction and assessment of smartphone addiction with diagnostic criteria and mobile apps" Journal of Behavioral Addictions, 2021,9(4):928-933 (IF: 5.143; Category: Psychiatry; Rank: 15/141(Q1)). DOI: <https://doi.org/10.1556/2006.2020.00074>
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6. An-Shun Tai, Shr-Wen Lin, **Sheng-Hsuan Lin***. “Sample size calculations for the multiple mediation model” *Journal of the Chinese Statistical Association*, 2020, 58(3):199-220 (<http://shenghsuanlin.web.nycu.edu.tw/wp-content/uploads/sites/349/2023/02/Tai-et-al-2020-Journal-of-the-Chinese-Statistical-Association-中國統計學報-a.pdf>)
7. An-Shun Tai, Yen-Tsung Huang, Wen-Chung Lee, **Sheng-Hsuan Lin***. “Conceptualizing agonistic interaction in a marginal sufficient component cause model: an alternative interpretation for subadditive interaction” *Journal of the Chinese Statistical Association*, 2020, 58(3):168-198. (<http://shenghsuanlin.web.nycu.edu.tw/wp-content/uploads/sites/349/2023/02/Tai-et-al-2020-Journal-of-the-Chinese-Statistical-Association-中國統計學報-b.pdf>)
8. An-Shun Tai, **Sheng-Hsuan Lin***. “Integrated multiple mediation analysis: A robustness–specificity trade-off in causal structure” (May 2020). Harvard University Biostatistics Working Paper Series. Working Paper 224. (<https://biostats.bepress.com/harvardbiostat/paper224>)
9. An-Shun Tai, Chun-An Tsai, **Sheng-Hsuan Lin***. "Survival mediation analysis with the death-truncated mediator: The completeness of the survival mediation parameter" (April 2020). Harvard University Biostatistics Working Paper Series. Working Paper 223.

(<https://biostats.bepress.com/harvardbiostat/paper223>)

10. An-Shun Tai, Pei-Hsuan Lin, Yen-Tsung Huang, **Sheng-Hsuan Lin***. “General approach of causal mediation analysis with causally ordered multiple mediators and survival outcome” (December 2019). Harvard University Biostatistics Working Paper Series. Working Paper 218. (<https://biostats.bepress.com/harvardbiostat/paper218>)
11. **Sheng-Hsuan Lin***. “Generalized interventional approach for causal mediation analysis with causally ordered multiple mediators” (June 2019). Harvard University Biostatistics Working Paper Series. Working Paper 217. (<https://biostats.bepress.com/harvardbiostat/paper217>)
12. Eric J. Tchetgen Tchetgen*, **Sheng-Hsuan Lin**. “Robust estimation of pure/natural direct effects with mediator measurement error”, (September 2012). COBRA Preprint Series. Working Paper 96. (<https://biostats.bepress.com/cobra/art96>)

non-SCI journal

Pei-Hsuan Hsia, An-Shun Tai, Chu-Lan Micheal Kao, Yu-Hsuan Lin , **Sheng-Hsuan Lin***. "Causal Mediation Analysis for Difference-in-Difference Design and Panel Data" .Epidemiologic Methods ,2025 (Accepted)

Book review

An-Shun Tai, **Sheng-Hsuan Lin*** .Book review:“Fundamentals of Causal Inference With R” by Babette A. Brumback ,Biometrics,2022 DOI:<https://doi.org/10.1111/biom.13733>

Chapters in a book

1. Yu-Hsuan Lin, **Sheng-Hsuan Lin**, Cheryl C. H. Yang, Terry B. J. Kuo. “Psychopathology of everyday life in the 21st century: smartphone addiction” In: Montag C., Reuter M. (eds) Internet Addiction. Studies in Neuroscience, Psychology and Behavioral Economics. Springer, Cham, 2017, 339-358. DOI: https://doi.org/10.1007/978-3-319-46276-9_20

Conference paper

1. **Sheng-Hsuan Lin**, Liu Cheng-Yu. “Empirical research on statistic numerology with social change survey database” 2020 Taiwan Science Society Technology Association. (July 4-5, 2020)
2. **Sheng-Hsuan Lin**, “Visualization and identification of agonistic interaction: Hepatitis B and C interaction on hepatocellular carcinoma” The conference Data Science, Statistics and Visualisation. Kyoto, Japan. (August 13-15, 2019)
3. **Sheng-Hsuan Lin**, “On identification of agonistic interaction – Hepatitis B and C interaction on hepatocellular carcinoma” Society for Epidemiologic Research 52nd Annual Meeting. Minneapolis, USA. (June 18-21,2019)
4. **Sheng-Hsuan Lin**, “A simulation based approach to causal mediation analysis with ordered multiple mediators and non-linear outcome – investigating the vulnerable time window of HBV activity for the mechanism of HCV induced hepatocellular carcinoma” Society for Epidemiologic Research 52nd Annual Meeting. Minneapolis, USA. (June 18-21,2019)
5. **Sheng-Hsuan Lin**, Bau-Lo Sun. Statistical numerology. 2018 Chinese Numerology Conference paper.
6. Chia-En Chung, **Sheng-Hsuan Lin**, Heng-Cheng Hsu, Henry Horng-Shing Lu, “Segmenting learning with convolutional Neural Network to extract features and build the classifier: an application to endoscope image classification for treatment planning of cervical pre-cancerous lesions”, Society for Epidemiologic Research's 51th Annual Meeting, Baltimore, ML, USA. (June 2018).

7. **Sheng-Hsuan Lin**, Tyler J. VanderWeele*, "Interventional approach for path-specific effects", Epidemiology Congress of the Americas, Miami, FL, USA (June 2016)
8. **Sheng-Hsuan Lin**, Eric J. Tchetgen Tchetgen, Tyler J. VanderWeele, "Mediation analysis with survival outcome and time-varying exposures, mediators, and confounders: a case study of the Framingham Heart Study", Boston Taiwanese Biotechnology Symposium 3th Annual Meeting, Boston, MA, USA. (2015.06).
9. **Sheng-Hsuan Lin**, Jessica Young, Eric TchetgenTchetgen, Miguel Hernán, Tyler J. VanderWeele, "Parametric mediational g-formula approach to mediation analysis with time-varying exposures, mediators and confounders: an application to smoking, weight, and blood pressure", Boston Taiwanese Biotechnology Symposium 3th Annual Meeting, Boston, MA, USA. (2015.06).
10. Yu-Wei Chen, Angela Y. Chang, Chen-Hao Chen, Yu-Han Chiu, Yen-Chen Feng, **Sheng-Hsuan Lin**, Yi-Han Sheu, Yen-Fen Lin, "Determinants for no definitive therapy for early-stage non-small cell lung cancer in U.S. population" 2015 ASCO Annual Meeting, Chicago, USA. (2015.05)
11. **Sheng-Hsuan Lin**, Jessica Young, Eric TchetgenTchetgen, Miguel Hernán, Tyler J. VanderWeele, "Parametric mediational g-formula approach to mediation analysis with time-varying exposures, mediators and confounders: an application to smoking, weight, and blood pressure", Society for Epidemiologic Research's 48th Annual Meeting, Denver, Colorado, USA. (2015.06).
12. Chen-Ying Wu, Yu-Hsuan Lin, Theresa Jacob, **Sheng-Hsuan Lin***, "Impact of Internet Addiction in Adolescents: Association with Sleep Quality, Lifestyle Factors and Smartphone Overuse", The 62th Annual Meeting of American Academy of Child and Adolescent Psychiatry, San Diego, CA, USA. (2014.10).
13. En-Nien Tu, Yi-Ling Chi, Chih-Ming Liu, Shiew-Jyr Wang, **Sheng-Hsuan Lin**, Yen-Nan Chiu, "Factors affecting psychological features in gender identity disorder patient", The 52nd Annual Meeting of Taiwanese Society of Psychiatry, Taipei, Taiwan. (November 02-03, 2013).

Editorial Activities and Grant Review

1. Peer reviewer:

- Journal of the Royal Statistical Society: Series C (Applied Statistics) (2025) (IF:1.3; Category: Statistics & probability; Rank: 71/167(Q2))
- British Medical Journal (2019,2021,2022) (IF:17.215; Category: Medicine, General & Internal; Rank: 4/155(Q1))
- Environment International (2020) (IF: 9.621; Category: Environmental Sciences; Rank: 14/274(Q1))
- Computers in Human Behavior (2018,2021, 2022) (IF: 6.829; Category: psychology, experimental; Rank: 3/90 (Q1))
- Journal of Behavioral Addictions (2017) (IF:6.756; Category: psychiatry; Rank: 12/143 (Q1))
- Structural Equation Modeling - A Multidisciplinary Journal (2020) (IF: 6.125; Category: Mathematics, Interdisciplinary Applications; Rank: 3/108 (Q1))
- Journal of Medical Internet Research (2020,2020,2020) (IF: 5.428; Category: Health Care Sciences and Services; Rank: 10/108(Q1))
- European Psychiatry (2017) (IF:5.361; Category: psychiatry; Rank:29/156 (Q1))
- Journal of Personalized Medicine (2021) (IF:4.945; Category: Health Care Sciences & Services; Rank:15/108(Q1))
- American Journal of Epidemiology (2020) (IF: 4.897; Category: Public, Environmental & Occupational Health; Rank: 33/203(Q1))
- Epidemiology (2017,2018, 2022) (IF: 4.822; Category: public, environmental and occupational

health; Rank: 35/203 (Q1))

- BMC Medical Research Methodology (2018,2020, 2022) (IF: 4.615; Category: Health Care Sciences & Services; Rank: 19/108 (Q1))
- Scientific Report (2017) (IF: 4.379; Category: Multidisciplinary Sciences; Rank: 17/73 (Q1))
- Technology in Society (2019) (IF: 4.192; Category: Social Issues; Rank: 4/44(Q1))
- International Journal of Medical Informatics (2019) (IF: 4.046; Category: Health Care Sciences & Services; Rank: 26/108 (Q1))
- Frontiers in Public Health (2021) (IF: 3.709; Category: public, environmental & occupational health; Rank: 36/176 (Q1))
- BMC Psychiatry (2019) (IF: 3.630; Category: Psychiatry; Rank: 71/156(Q2))
- International Journal of Infectious Disease (2020) (IF:3.623; Category: Infectious Diseases; Rank: 45/92(Q2))
- Oral Diseases (2019) (IF: 3.511; Category: Dentistry, oral surgery & medicine; Rank: 23/91(Q2))
- Pervasive and Mobile Computing (2015) (IF:3.453; Category: computer science, information systems; Rank: 62/162(Q2))
- BMC Public Health (2017,2017) (IF:3.295; Category: public, environmental and occupational health; Rank:73/203 (Q2))
- PLoS ONE (2017,2020) (IF:3.24; Category: Multidisciplinary Sciences; Rank: 26/73 (Q2))
- Psychiatry Research (2018) (IF: 3.222; Category: psychiatry; Rank: 84/156 (Q3))
- BMC Bioinformatics (2020) (IF:3.169; Category: Mathematical & Computational Biology; Rank: 16/58(Q2))
- Statistical Methods in Medical Research (2020,2021) (IF: 3.021; Category: Statistics & Probability; Rank: 22/125(Q1))
- Journal of Causal Inference (2016,2020,2021) (IF:3; Category: Social Sciences, Mathematical Methods; Rank:12/52(Q1))
- Frontiers in Psychology (2018) (IF:2.99; Category: psychology, multidisciplinary; Rank: 42/140 (Q2))
- Biometrics (2020,2021) (IF: 2.571 ; Category: Statistics & Probability; Rank: 26/125 (Q1))
- Annals of Nursing and Practice; Psychometrika (2017) (IF: 2.5; Category: Psychology, mathematical; Rank: 6/13 (Q2))
- Children and youth services review (2018) (IF:2.393; Category: Social work; Rank:19/46 (Q2))
- Statistics in Medicine (2018,2019,2019) (IF: 1.9592; Category: statistics & probability; Rank: 28/124 (Q1))
- Computational Statistics & Data Analysis (2020) (IF: 1.681; Category: Statistics & Probability; Rank: 56/125(Q2))
- Journal of Addictive Diseasea (2017) (IF:1.594; Category: Substance Abuse; Rank:31/37(Q4))
- Coronary Artery Disease (2019) (IF: 1.439; Category: Cardiac & Cardiovascular Systems; Rank: 132/141(Q4))
- Statistica sinica (2021, 2021) (IF:1.261; Category: Statistics & Probability; Rank:76/125(Q3))
- Epidemiological Method (2021)

2. Conference paper

- Abstracts for the 4th Epidemiology Congress of the Americas (2016)
- Society for Epidemiologic Research's Annual Meeting (2017-present)

3. Grant and Award

- Ministry of Education ,Teaching Practice Research Program , School Review Committee (2024.11)

- Preliminary Review Committee Member, "Outstanding Research Award in Infectious Disease Prevention for Undergraduate and Graduate Students" by the National Taiwan University Center for Research and Education in Infectious Disease Prevention (2024).
- The 4th Master Statistics Seminar, review committee (2022)
- Statistics Topic Competition, review committee (Taipei University) (2022)
- Taiwan Public Health Joint Annual Conference, Poster competition, review committee (2021)
- MOHW-NTU Infectious Diseases Research and Education Center, Student outstanding research paper award, review committee (2021、2024)
- Ching-Zong Wei Statistical Paper Award, review committee (2019)
- Ministry of science and technology in Taiwan grant review (2019)(*1); (2021)(*2); (2022)(*8)
- University of California, Irvine (UCI) Institute for Clinical and Translational Science (ICTS) Pilot Award grant review panel (2017).

Teaching and presentation

Courses Instructor

National Yang Ming Chiao Tung University

2025 (Spring) "Mediation and interaction analysis"

2025 (Fall) "Regression Analysis"

2025 (Fall) "Causal inference"

2025 (Spring) "Frontier Science and Technology – Applied Statistics" (co-taught with Prof. Chu-Lan Kao)

2025 (Spring) "Mediation and interaction analysis"

2024 (Fall) "How to make your life splendid"

2024 (Fall) "Regression Analysis"

2024 (Fall) "Causal inference"

2024 (Spring) "Seminar"

2024 (Spring) "Mediation and interaction analysis"

2023 (Fall) "Regression Analysis"

2023 (Fall) "Causal inference"

2023 (Spring) "Frontier Science and Technology – Applied Statistics" (SCPA30012) (co-taught with Prof. Nan-Fu Peng and Prof. Chu-Lan Kao)

2023 (Spring) "Advanced Causal inference" (SCIS30088)

2023 (Spring) "Introduction to the methods of biomedical research" (SCIS30036)

2022 (Fall) "Causal inference"(SCIS30007)

2022 (Fall) "Seminar" (SCIS30013)

2022 (Spring) "Advanced Causal inference" (IST5579)

2022 (Spring) "Introduction to the methods of biomedical research" (IST5618)

2021 (Fall) "Causal inference" (IST5557)

2021 (Fall) "Seminar" (IST5401)

2021 (Spring) "Advanced Causal inference" (IST5579)

National Chiao Tung University

2020 (Fall) "Causal inference" (IST5557)

2020 (Fall) "Introduction to the methods of biomedical research" (IST5618)

2020 (Spring) "Longitudinal Data Analysis" (IST5603)

2020 (Spring) "Causal inference" (IST5557)

2019 (Fall) "Clinical Trials" (IST5619)

2019 (Fall) "Introduction to the methods of biomedical research" (IST5618)

2019 (Spring) "Seminar" (IST5401)

- 2019 (Spring) “Causal inference” (IST5557)
 2018 (Fall) “Introduction to the methods of biomedical research” (IST5618)
 2018 (Fall) “Seminar” (IST5401)
 2018 (Spring) “Advanced methods for biomedical research” (IST5556)
 2017 (Fall) “Introduction to the method for biomedical research” (IST5618)

Teaching Assistantship

Harvard University

- 2014 (Fall) “Decision Analysis for Health and Medical Practices” (RDS 280)

Invited Conference Oral Presentations

1. AS conference 2025(Academia Sinica). **Topic: Generative AI and Academic Routines: Evolving Practices and Reflections** (2025.07.03)
2. The 34st Southern District Statistical Seminar and 2025 Chinese Society of Probability Statistics Annual Meeting and Academic Seminar. Wen-Jang Huang Young Scholar Award (Applied Category). **Topic: Multiple Mediation Analysis under Longitudinal Data: Theoretical Challenges and Methodological Advances** (2025.06.20)
3. The 3rd Statistics Salary Seminar (National Cheng Kung University). **The Distance Between Numerology And Statistics.** (2024.03.23)
4. European Causal Inference Meeting (Eurocim 2023)(Oslo, Norway) . **Topic: Causal mediation analysis with multiple time-varying mediators** (2023.04.19-2023.04.21)
5. ISPOR Europe (Vienna, Austria). **Topic: Population Attributable Fraction Based on Sufficient Causal Framework for Mediation Settings - Evaluation of Resource Distribution on Prevention and Treatment for Stroke** (2022 2022.11.06-2022.11.09)
6. Economics and Statistics Interdisciplinary Workshop. Causal Analysis - Speaker in the Field of Statistics (2022.08.30)
7. The 31st Southern District Statistical Seminar and 2022 Chinese Society of Probability Statistics Annual Meeting and Academic Seminar. Causal Inference Session speaker: **From Linear Structural Equation Modeling to Generalized Multiple Mediation Formula** (2022.07.28)
8. 2021 Taiwan Mathematical Society Annual Meeting (Speaker) (2022.01.18)
9. 2021 Taiwanese Association of Statistical Methodology(keynote speaker) : From linear structural equation modeling to generalized multiple mediation formula (2021.12.4)
10. The 11th Chinese Traditional Art and Numerical Culture Symposium (New Taipei, Taiwan) (2022)
11. IASC-ARS invited session (IS17: Innovation methodology development of causal mediation analysis for biomedical data) (2022.2.24)
12. 4th International Conference on Econometrics and Statistics (EcoSta 2021).**Topic:Generalized interventional approach for causal media-tion analysis with causally ordered multiple mediators** (2021.06.24-2021.06.26) (Online meeting due to Covid-19)
13. The 10th Chinese Traditional Art and Numerical Culture Symposium (New Taipei, Taiwan) (2021)
14. The 30th Southern District Statistical Seminar and 2021 Chinese Society of Probability Statistics Annual Meeting and Academic Seminar. Causal Inference Session Host (2021)

15. Academia Sinica Human Resources and Social Security Center Historical Population Project Team Causal Mediation Workshop. (2020.12)
16. 2020 Joint Public Health Conference (Taipei, Taiwan): Multiple intermediary analysis and decision-making analysis based on long-term follow-up data-Taking chronic obstructive pulmonary disease generation data and emphysema patients' lung volume reduction surgery clinical trial data as examples. Special event organizer (2020.10.17)
17. The 9th Chinese Traditional Art and Numerical Culture Symposium (New Taipei, Taiwan): Conflict, Reconciliation and Symbiosis between Numerology and Science--Finding a Solution from the "Religious Dialogue" (2020.09.26)
18. The 29th Southern District Statistical Seminar and 2020 Chinese Society of Probability Statistics Annual Meeting and Academic Seminar. Causal Inference Session Host and Speaker (Chiayi, Taiwan): **Integrated multiple mediation analysis: A robustness-specificity trade-off for the causal structure** (2020.08.20)
19. 11th ICSA International Conference (Hangzhou, China): **Generalized interventional approach for causal mediation analysis with causally ordered multiple mediators** (2019.12.20-22)
20. 2019 China Statistical Society Member Conference and Statistical Academic Seminar. Organizer of Biostatistics Session (Hsinchu, Taiwan. 2019.12.14)
21. 2019 Joint Member Conference and Academic Seminar. Multi-Causal Intermediary Analysis Session Host and Speaker (Taipei, Taiwan): **A review of causal mediation analysis with multiple mediators** (2019.09.26-28)
22. The conference Data Science, Statistics and Visualisation (DSSV 2019) (Kyoto, Japan): **Generalized Interventional Approach for Causal Mediation Analysis with Causally Ordered Multiple Mediators; On identification of agonistic interaction: Hepatitis B and C interaction on hepatocellular carcinoma** (2019.08.13-15).
23. 2018 Statistics Week Taiwan Statistics for the Next Decade (Taipei, Taiwan): **Visualization and identification of agonistic interaction through an exclusive transformation of sufficient component cause model** (2018.11.06)
24. Japanese Joint Statistical Meeting 2018 (Tokyo, Japan): **Causal inference and mechanism investigation undertime-varying system** (2018.09.12)
25. 23rd International Conference on Computational Statistics (COMPSTAT 2018) (Iasi, Romania) **Visualization and identification of agonistic interaction – hepatitis B and C interaction on hepatocellular carcinoma.** (2018.08.28).
26. The 27th Southern District Statistical Seminar & 2018 Chinese Society of Probability Statistics Annual Conference and Academic Seminar & 2018 Chinese Data Mining Association Annual Conference and Academic Seminar (Tainan, Taiwan): **Visualization and identification of agonistic interaction Hepatitis B and C interaction on hepatocellular carcinoma** (2018.06.29)
27. Keynote speech at the 11th Cross-Strait Symposium on Probability and Statistics (Taipei, Taiwan): **Causal Inference and Mechanism Investigation under Time-Varying System** (2018.06.01)
28. 2018 Smart Technology and Applied Statistics Seminar and 2018 Applied Statistics Academic Seminar (Hsinchu, Taiwan). Biometrics (2018.05.19)
29. 7th Chinese Traditional Mathematics and Culture Symposium (New Taipei, Taiwan): Models and Methodology of Quantitative Research on Numerology (2018.03.31)

30. 2017 Joint Statistical Meetings, Invited Papers (Baltimore, ML): **Parametric mediational g-formula approach to mediation analysis with time-varying exposures, mediators, and confounders** (2017.07.31).
31. 40th Anniversary of the Dutch Epidemiology Conference, WEON preconference (session: Innovations in Methodology for Big Data Research) (the Netherlands): **Causal mediation analysis with time-varying mediators** (2016.06).
32. Epidemiology Congress of the Americas (Miami, FL, USA): **Mediation analysis with survival outcome and time-varying exposures, mediators, and confounders: a case study of the Framingham Heart Study** (2016.06).
33. 3th Boston Taiwanese Biotechnology Symposium (Boston, MA, USA): **Parametric mediational g-formula approach to mediation analysis with time-varying exposures, mediators and confounders: an application to smoking, weight, and blood pressure** (2015.06).
34. Annual Conference of EPICOH-Medichem Occupational Health under Globalization and New Technology (Taipei, Taiwan): **Estimation of life expectancies and loss of life expectancies for workers with permanent occupational disability of lower limbs: A follow-up study for 21 years** (2010.04)
35. 29th Occupational Hygiene Association of Taiwan Conference (Taipei, Taiwan): **Increased mortality risk for workers with a compensated, permanent occupational disability of the upper or lower extremities: a 21-year follow-up study** (2009.04)
36. 9th Occupational Therapy Annual International Meeting (Taipei, Taiwan): **Estimation of life expectancies and loss of life expectancies for workers with permanent occupational disability of lower limbs: A follow-up study for 21 years** (2009.04)

Invited Seminars and lectures (past and upcoming)

1. National Yang Ming Chiao Tung University ,Center of Teaching and Learning Development, **Motivational Teaching and Teacher Professional Learning Community: Application Information and Sharing Session.** 2024.05.28
2. Health Information and Epidemiology Laboratory (HIE Lab), Chang Gung Memorial Hospital, Chiayi, Taiwan. 2020.09.19
3. Department of Statistics, Feng Chia University. 2020.10.16
4. National Cheng Kung University Institute of Public Health. 2020.10.14
5. Taichung Municipal Taichung First Senior High School. 2020.04
6. Taipei Medical University. 2019.11.13
7. National Dong Hua University. 2019.11.08
8. China Medical University Hsinchu Hospital. 2019.10
9. Department of Applied Mathematics, National Sun Yat-sen University. 2019.05.16
10. National University of Kaohsiung. 2019.05.15
11. National Yang Ming University, Institute of Public Health. 2019.05.06
12. Seminar in Taichung Municipal Taichung First Senior High School. 2018.12.20
13. The Graduate Institute of Statistics and Information Science National Changhua University of Education. 2018.10.04
14. Institute of Statistics, Tunghai University. 2018.10.02
15. Institute of Statistics, National Cheng Kung University. 2018.09.27
16. Lecture in Institute of Epidemiology and Preventive Medicine, National Taiwan University. 2018.06.01 and 2018.06.08

17. Institute of Statistical Science, Academia Sinica。 2018.05
18. Department of Mathematics, National Chung Hsing University. 2018.04
19. Department of Mathematics, National Chung Cheng University, Department of Mathematics. 2018.04
20. Seminar in Graduate Institute of Statistics, National Central University. 2018.04.10
21. Seminar in Department of Statistics, National Cheng Chi University, 2018.04.09
22. Hypothesis test for categorical data and non-parametric method. Lecture in Department of Medicine, National Taiwan University. 2018.03.30
23. Seminar in Department of Statistics, Tam Kang University. 2018.03.15
24. Seminar in Department of Epidemiology, UCLA, 2018.02.14
25. Finding the invisible hand of God – Investigate the mechanism on data science. Lecture in Taichung First Senior High School. 2017.12.20
26. Causal inference and mechanism investigation under time-varying system. Seminar in Institute of Statistics, National Tsing Hua University. 2017.12.15
27. The unification of confounding, mediation, and interaction through causal diagram and sufficient component cause model. Lecture in National Taipei University of Nursing and Health Sciences. 2017.12.05
28. Causal mechanism investigation through mediation analysis for longitudinal data. Seminar in Division of Biostatistics and Bioinformatics at National Health Research Institutes. 2017.11.08

Public Presentation (past and upcoming)

1. Public Speech in New Taipei Municipal Mingder High School, "The distance between numerology and statistics". 2019.11
2. Seminar in Ministry of Education. 2019.03.25
3. Lecture in the 4th Conference of the Development of International Olympiad. 2018.12
4. Public Speech in Café Philo. 2018.01.24
5. Public Speech in Café Philo. 2017.05

Dissertation and Research Advising:

High School Research Project Advising

Taichung Municipal Taichung First Senior High School

- Advisor for Jian Tz-Shuen, Class of Science, 2019-2020

Masters Thesis Advising

National Yang Ming Chiao Tung University /National Chiao Tung University

- Advisor for Hsu Yi-Yung, Institute of Statistics, 2025-Present
- Advisor for You Sheng-Kuan, Institute of Statistics, 2025-Present
- Advisor for Wang Cheng-Jia, Institute of Statistics, 2024-2025
- Advisor for Chu Chia-Ling, Institute of Statistics, 2024-2025
- Advisor for Chen Ping-Hsuan, Institute of Statistics, 2024-2025
- Advisor for Hong Hsiang-Shi, Institute of Statistics, 2023-2024
- Advisor for Zhang Yun-Hao, Institute of Statistics, 2023-2024
- Advisor for Lee Wei-Chien, Institute of Statistics, 2023-2024
- Advisor for Duan Yi-Chen, Institute of Statistics, 2023-2024
- Advisor for Kao Shih-Hsuan, Institute of Statistics, 2023-2024
- Advisor for Hsu Huan-Chi, Institute of Statistics, 2021-2023
- Advisor for Yeh Chao-Ying, Institute of Statistics, 2022-2023
- Advisor for Lin Chuan, Institute of Statistics, 2021-2022

- Advisor for Chen Yan-Hung, Institute of Statistics, 2021-2022
- Advisor for Wu Pei-Hua, Institute of Statistics, 2021-2022
- Advisor for Hsieh Yi-Chen, Institute of Statistics, 2021-2022
- Advisor for Chiou Hung-Ru, Institute of Statistics, 2021-2022
- Advisor for Li Cheng-Chien, Institute of Statistics, 2020-2021
- Advisor for Shia Pei-Shiuan, Institute of Statistics, 2020-2022
- Advisor for Liao Le-Shiuan, Institute of Statistics, 2020-2021
- Advisor for Du Yi-Jyuan, Institute of Statistics, 2019-2020
- Advisor for Cai Jyun-An, Institute of Statistics, 2019-2020
- Advisor for Chu Min-Hui, Institute of Data Science and Engineering, 2018-Present
- Advisor for Lin Pei-Hsuan, Institute of Data Science and Engineering, 2018-2020
- Co-Advisor for Novi Ajeng Salehah, Institute of Statistics, 2018-2019
- Advisor for Lin Kuan-I, Institute of Statistics, 2018-2019
- Advisor for Lin Shih-Wen, Institute of Statistics, 2018-2019
- Advisor for Lin Geng-Xian, Institute of Statistics, 2018-2019
- Advisor for Liang Ying-Wen, Institute of Statistics, 2018-2019
- Co-Advisor for Chung Chia-En, Institute of Statistics, 2017-2018

National Tsing Hua University

- Advisor for Lu Yung-Teng, Institute of Statistics, 2021-2022

Doctoral Thesis Advising

National Yang Ming Chiao Tung University /National Chiao Tung University

- Advisor for Zhang Yun-Hao, Institute of Statistics, 2024-Present
- Advisor for Kao Shih-Hsuan, Institute of Statistics, 2024-Present
- Advisor for Chen Yan-Lin, Institute of Statistics, 2023-Present
- Advisor for Dr. Liu Yao-Jen, PhD Program of Biomedical Science and Engineering Curriculum, 2022-Present
- Advisor for Peng Han-Chi, Institute of Statistics, (On-the-Job) 2022-Present
- Advisor for Wu Chun-Yan, Institute of Statistics, (On-the-Job) 2021-Present
- Advisor for Dr. Chen Yi-Rong, PhD Program of Biomedical Science and Engineering Curriculum, 2021-Present
- Advisor for Dr. Wu Jun-Yi, Doctoral Program in Biotechnology, 2021-Present
- Advisor for Dr. Hong Shao-Yu, PhD Program of Biomedical Science and Engineering Curriculum, 2018-Present
- Advisor for Dr. Lin Yu-Chih, PhD Program of Biomedical Science and Engineering Curriculum, 2020-2025
- Advisor for Dr. Lin Yi-Shiuan, Department of Biological Science and Technology, 2020-2025
- Advisor for Chu Yu-Cheng, Institute of Statistics, 2020-2024.1
- Advisor for Dr. Huang Tz-Yan, Department of Biological Science and Technology, 2020-2022.2
- Advisor for Chou Meng-Ying, Institute of Statistics, 2019-2020

Postdoctoral Researcher Advising

National Yang Ming Chiao Tung University /National Chiao Tung University

- Lee Chung-Han, 2019 – 2022.08
- Tai An-Shun, 2019 –2022.07

Dissertation Committees*National Yang Ming Chiao Tung University / National Chiao Tung University*

- Hong Yi-jie, Institute of Statistics, 2022
- Zhu Kai-ze, Institute of Statistics, 2022
- Gao Ji-Ling, Institute of Statistics, 2021
- Dwilaksana Abdullah Rasyid, Institute of Statistics, 2020
- Amri Muhaimin, Institute of Statistics, 2020
- Wu Meng-Yun, Institute of Statistics, 2020
- Chen Kai-Chi, Institute of Statistics, 2020
- Chiang Ling-Wei, Institute of Statistics, 2020
- Chen Chien-Heng, Institute of Statistics, 2020
- Lee Chung-Han, Institute of Statistics, 2019
- Sheng Hang-Ping, Institute of Statistics, 2018
- Yen Chia-Ying, Institute of Statistics, 2018
- Lin Chih-Hsuan, Institute of Statistics, 2018
- Chang Yung-Cheng, Department of Industrial Engineering and Management, 2018
- Chen Tzu-Yu, Department of Industrial Engineering and Management, 2018
- Chen Chien-Jen, Department of Industrial Engineering and Management, 2018
- Wang Yi-I, Applied Science and Technology, 2018
- Pan Yu-Ming, Institute of Statistics, 2018
- Hung Hsiu-Chun, Institute of Statistics, 2018

National Cheng Kung University

- Dr. Chou Chih-Chen, Institute of Statistics, 2022
- Chuang Cheng-Feng, Institute of Statistics, 2021
- Ho Chia-I, Department of Public Health, 2018

National Tsing Hua University

- Wang Ze-Wen, Institute of Statistics, 2021
- Chin Yung-Hui, Institute of Statistics, 2020
- Cal Chang-Yu, Institute of Statistics, 2018

National Taiwan University

- Chuang, Yuan-Jung, Institute of Statistics and Data Science, 2024
- Ho, Yun-Lin, Institute of Mathematics, 2022

Hong Kong University

- Miss SHI Jian, School of Public Health, 2022

Honors and Awards*National Yang Ming Chiao Tung University / National Chiao Tung University*

- Wang Chen-Chia, Institute of Statistics. 2025 Chinese Statistical Association Taiwan (CSAT) Paper Award Merit Award. (Manuscript Title: Mechanism analysis with ordered multiple mediators - average causal effect and population intervention effect)
- Chen Yan-Lin, Institute of Statistics, Ministry of Education Doctoral Student Scholarship, 2024
- Duan Yi-Chen, Institute of Statistics. 2024 Chinese Statistical Association Taiwan (CSAT) Paper Award Merit Award. (Manuscript Title: Mechanism analysis of population attributable fraction -Integrated interaction-mediation analysis under causal inference framework)

- Chang Yun-Hao, Institute of Statistics. 2024 Chinese Statistical Association Taiwan (CSAT) Paper Award Excellent Work. (Manuscript Title: Causal mediation analysis with multiple time-varying mediators)
- Chang Yun-Hao, Institute of Statistics, National Science and Technology Council (NSTC) Ph.D. Research Fellowship, 2024
- Duan Yi-Chen, Institute of Statistics. Outstanding Paper Poster Award of the 6th "Master's Statistical Research Achievements Seminar" (Manuscript Title: Mechanism analysis of population attributable fraction -Integrated interaction-mediation analysis under causal inference framework)
- Yi-Chen Hsieh, Institute of Statistics. 2022 Chinese Statistical Association Taiwan (CSAT) Paper Award Excellent Work. (Manuscript Title: A Pilot Study of Exploring the Effect of Entacapone on Patients with Parkinson's Disease Through the Analysis of Gut Microbiome)
- Pei-Hua Wu, Institute of Statistics. 2022 Chinese Statistical Association Taiwan (CSAT) Paper Award Excellent Work. (Manuscript Title: Exploring the Causal Effect of Constipation on Parkinson's Disease Through Mediation Analysis of Microbial Data)
- Pei-Hsuan Hsia, Institute of Statistics. 2022 Chinese Statistical Association Taiwan (CSAT) Paper Award Excellent Work. (Manuscript Title: Causal Mediation Analysis for Difference-in-Difference Design and Panel Data)
- Pei-Hsuan Hsia, Institute of Statistics. The 31st Chen Wen-cheng Statistical Science Scholarship, 2021
- Le-Hsuan Liao, Institute of Statistics. 2021 Chinese Statistical Association Taiwan (CSAT) Paper Award Excellent Work. (Manuscript Title: Integral mediation—interaction analysis with multiple mediators)
- Pei-Hsuan Hsia, Institute of Statistics. 2021 Public Health Association Poster Excellence Award.
- Yu-Cheng Chu, Institute of Statistics. 2020 Outstanding PhD Student Entrance Scholarship.
- Chun-An Tsai, Institute of Statistics. 2020 Chinese Statistical Association Taiwan (CSAT) Paper Award Excellent Work. (Manuscript Title: Approaches to Mediation Analysis in the Presence of the death-truncated Mediator)
- Yi-Juan Du, Institute of Statistics. 2020 Chinese Statistical Association Taiwan (CSAT) Paper Award Excellent Work. (Manuscript Title: Integration of all existing methods for causal multi-mediation analysis)
- Lin Pei-Hsuan, Institute of Data Science and Engineering. 2020 National Postgraduate Statistics Research Achievement Symposium Special Award in the Poster Thesis Contest. (Manuscript Title: General approach of causal medication analysis with causally ordered multiple mediators and survival outcome)
- Lin Shih-Wen, Institute of Statistics. 2019 Chinese Statistical Association Taiwan (CSAT) Paper Award Excellent Work. (Manuscript Title: The Mediation Parameter Estimation and Sample Size Calculations for the Multiple Mediation Model)
- Liang Ying-Wen, Institute of Statistics. 2019 Chinese Statistical Association Taiwan (CSAT) Paper Award Excellent Work. (Manuscript Title: Generalized Controlled Direct Effect for Multiple Mediation Analysis with Multiple Mediators)
- Liang Ying-Wen, Institute of Statistics. Taiwan Occupational Hygiene Association published the second place in 108 excellent posters: The effect of national policy change on working hours and overwork-related disease: a medication analysis

School and Community Service

Academic Community Involvement

- Executive Director, 11th Taiwan Society of Statistical Methodology 2026
- The Chinese Institute of Probability and Statistics (CIPS) , 12th Board Member 2025.01.08-2028.01.07
- Chinese Statistical Association(Taiwan), The 40th Publishing Committee 2024.08.01-2027.07.31
- IASC-ARS, Director 2023.12-2027.12

- Taiwanese Association of Statistical Methodology, Director 2022-2025.11
- The Chinese Institute of Probability and Statistics (CIPS) , 11th Board Member 2022.01-2025.01
- IASC-ARS Scientific , Secretary 2022-2023
- The 2nd Academic Symposium on Statistics , Meeting & Agenda committee member 2022.

National Yang Ming Chiao Tung University

- Faculty Representative, Dormitory Management Committee. 2025.8-2026.7
- Voting member of Student Dormitory Management Committee, College of Science. 2025.8-2026.7
- Adjunct Faculty for Institute of Chinese Medicine. 2024.8-2026.7
- Mentor for the Department of Biotechnology and Laboratory Science in Medicine. 2024.8-2025.7
- The science class of Taichung First Senior High School "Technology and Society" class. 2024.10.29
- Candidate for faculty evaluation member of the Faculty of Science (representative of the Institute of Statistics) 2024.8-2025.7
- Voting member of Faculty of Science Teaching Council. 2024.8-2026.7
- Voting member for the dormitory of the Faculty of Science. 2024.8-2026.7
- Advisor of Department of Biotechnology and Laboratory Science in Medicine (113-1st term).2024
- Department of Traditional Chinese Medicine, National Yang-Ming Chiao Tung University - Instructor of the Interdisciplinary Group (Artificial Intelligence and Big Data in Traditional Chinese Medicine) 2024
- Oral Examination Committee for Master's Degree exam admission. (2023 ∙ 2024)
- Research Ethics Committee for Human Subject Protection Committee, National Chiao Tung University, REC (2021.02-2024.07)
- Election of Dean in College of Science; committee member (2021)
- Duty dormitory management committee. (2021)

National Chiao Tung University

- Research Ethics Committee for Human Subject Protection Committee, National Chiao Tung University, REC (2020 -2021.01)
- Duty dormitory management committee. (2020)
- Member of the Academic Council. (2020)
- PhD Degree Program of Biomedical Science and Engineering Admission Committee. (2019)
- Master Admission Committee. (2018)
- Research Ethics Committee for Human Subject Protection, National Chiao Tung University. (2018)
- Written review of the application for the selection of the master class. (2018.11)
- Member of the oral entrance exam for the master's class. (2018.03)
- The entrance examination committee member of the master class. (2017.11)

Harvard University

- Founder and Chair, HSPH Student Society for Historical Public Health Practices, Harvard School of Public Health (2014)
- Founder and Chair, HSPH Student Calligraphy Society, Harvard School of Public Health (2014)

National Taiwan University

- Championship of 2008 Inter-Medical College Go Competition (2008.03)
 - The largest medical student Go (a kind of traditional Chinese Chess) prize awarded for undergraduate medical students in Taiwan. Participated as the leader of NTU team
- Chair, the Family Survey Group in Summer service team of Traditional Medicine Club, National

Taiwan University (2008.06-2008.07)

- Host of the inter-collegial conference for the management and promotion of a Traditional Medicine Club (2004.12)
- Volunteer, Summery service team of NTU-TMC, National Taiwan University (2004-2008)

Others

- Advisory Committee Member, Working Group 2 of the Administrative Affairs Center for the Science Class at Taichung First Senior High School, “Follow-up Study on the Academic Achievement of Students from Science Classes in Senior High Schools after Entering University.” 2025.8-2026.7
- Wu Chien-Shiung Science Camp Invited Professor. (2019.08)
- Academia Sinica Statistical Science Camp Host. (2018.09)
- Assistant, the 6th to 8th Wu Chien-Shiung Science Camp, Wu Chien-Shiung Education Foundation, Taiwan (2003-2005)
- Invited Member of the 4th to 5th Wu Chien-Shiung Science Camp (2001-2002)