

# Jay Chiehn Liao 廖傑恩

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<https://github.com/jayenliao> | <https://rpubs.com/d920056>

## EDUCATION

### ESC Rennes School of Business

Rennes, France

#### Master of Science in Data and Business Analytics

Sept 2021 – Apr 2022

GPA of the first semester: 4.50/5.00

- Specialization: Marketing
- Graduation Project: *Using Text Analysis to Explore the Role of Standard Essential Patents in Information and Communication Technologies and Artificial Intelligence*
- Adviser: Dr. Anke Piepenbrink

### National Cheng Kung University

Tainan City, Taiwan

#### Master of Business Administration in Data Science

Sept 2020 – July 2022 (expected)

- Thesis: *Learning Graph Structures from Structured and Unstructured Data for Downstream Tasks*
- The 1<sup>st</sup> place, Academic performance Spring, 2021
- The 1<sup>st</sup> place, Academic performance of Fall, 2020
- Adviser: Dr. Cheng-Te Li

#### Double Degree of Bachelor (Overall GPA: 3.86/4.30)

Sept 2015 – June 2020

#### Bachelor of Business Administration in Statistics

GPA of required courses: 3.75/4.30

#### Bachelor of Science in Psychology

GPA of required courses: 3.98/4.30

## EMPLOYMENT

### National Cheng Kung University

Tainan City, Taiwan

#### Research and Teaching Assistant, Institute of Data Science Networks and Artificial Intelligence Laboratory

Aug 2020 – Present

Lab host: Dr. Cheng-Te Li

- Research topics: Graph neural network, social network and recommendation system.
- Managing Linux and CentOS servers.
- Assisted 4 courses: Data Science, Big Data Analysis, Social Network and Recommendation system.

#### Research and Teaching Assistant, Department of Public Health Health Behavior Laboratory

Jan 2017 – Aug 2020

Lab host: Dr. Carol Strong

- Research topics: Health behavior interventions with technology, adolescent mental health, sexually transmitted infections and the social network,
- Conducted participants recruitment and protocols for Institutional Review Board.

## SKILLS

- Proficient in Python for machine learning and deep learning: NumPy, Pandas, Scikit-Learn, Pytorch
- Proficient in R for data visualization, data manipulation, statistics, and machine learning
- MySQL, LaTeX, Markdown, Git, Linux, MacOS, Microsoft Office, Google Doc, SPSS
- English (TOEIC 925/990, TOEIC writing 190/200), Mandarin and traditional Chinese (native), Taiwanese (mother tongue), French (breakthrough)

## PUBLICATIONS \*corresponding author

Lo, Y. T., **Liao, J. C. (Co-first author)**, Chen, M. H., Chang, C. M., & Li, C. T. (2021). Predictive modeling for 14-day unplanned hospital readmission risk by using machine learning algorithms. *BMC Medical Informatics and Decision Making*, 21(1), 288. doi:10.1186/s12911-021-01639-y

Strong, C. \*, Wu, H. J., Tseng, Y. C., Yuan, C. W., Yu, Y. F., **Liao, J. C.**, Chen, Y. W., Hung, Y. C., Li, C. W., Huang, P. H., Ko, N. Y., and Ku, S. W. W. (2020). A Mobile App (UPrEPU) to Monitor Adherence to Pre-Exposure Prophylaxis in Men Who Have Sex with Men: A Protocol for a User-Centered Approach Mobile App Design and Development. *The JMIR Research Protocols*, 9(12), e20360.

## HONORS & AWARDS

<b>The First Place Award (out of 401 teams), Chunghwa Post Big Data Competition 2019</b> (Chunghwa Post Co., Ltd.)	June 2019
<b>The Third Place Award (out of 859 teams), Recommendations of Credit Card Spending Categories</b> (E.SUN Bank)	Jan 2022
<b>Top 20%, Commercial Big Data Competition 2020</b>	Dec 2020
Department of Finance, National Sun Yat-Sun University and Taishin International Bank Co., Ltd.	
<b>Top 25%, AI CUP Fall 2020 - Medical Information De-identification</b>	Jan 2021
Intelligent Knowledge Management Laboratory, National Cheng Kung University	
<b>Research Grants for Undergraduate Students</b> (Taiwan Ministry of Science and Technology)	June 2018
<b>Excellent Award, Certificate of Statistic Analysis</b> (The Chinese Applied Statistics Association)	May 2019
<b>Advanced Award, Competition of Statistics</b> (National Cheng Kung University)	May 2017

## CONFERENCE PRESENTATIONS presenting author, \*corresponding author

### International Conferences

Ku, S. W. W.\*, Li, C. W., Huang, P., Strong, C., Garner, A., Howell, S., Wu, T. H., **Liao, J. C.**, Ko, N. Y., and Bourne, A. (May 2020). *Factors Associated with Uptake of Event-Driven and Daily Regimen of Pre-exposure Prophylaxis among Gay, Bisexual and Other Men Who Have Sex with Men in Taiwan: 2019 Hornet PrEP Survey*. Oral presentation at the 23<sup>rd</sup> International AIDS Conference (AIDS 2020), San Francisco, California.

**Liao, J. C.\***, Yu, Y. F., & Strong, C.\* (Sep 2019). *The Influence of the Venue-Based Network to the Anogenital Human Papillomavirus Infection in Men who Have Sex with Men: An Application of Temporal Network Autocorrelation Model*. Oral presentation at the 4<sup>th</sup> European Conference of Social Network (EUSN 2019), Zurich, Switzerland.

Yu, Y. F.\*, Ting, T. T., **Liao, J. C.**, & Strong, C.\* (Sep 2019). *Effects of Depressive Symptom and Stressful Life Events on Friendship Dynamics in Adolescence*. Poster presentation at the 4<sup>th</sup> European Conference of Social Network (EUSN 2019), Zurich, Switzerland.

**Liao, J. C.**, Zhou, H., Yu, Y. F., Ku, W. W., Ko, N. Y., & Strong, C. (Oct 2018). *The Influence of the Venue-Based Social Network to The Human Papillomavirus Infection of Men Who Have Sex with Men in Southern Taiwan*. Poster presentation at the 32<sup>nd</sup> International Papillomavirus Conference (IPVC 2018), Sydney, Australia.

Yu, Y. F., Zhou, H., **Liao, J. C.**, Ku, W. W., Ko, N. Y., & Strong, C. (Oct 2018). *Incidence and Associated Factors of Anogenital Human Papillomavirus Infection in A Community Sample of Men Who Have Sex with Men in Taiwan*. Poster presentation at the 32<sup>nd</sup> International Papillomavirus Conference (IPVC 2018), Sydney, Australia.

### Domestic (Taiwanese) Conferences

**Liao, J. C.\***, Lee, T. J., & Sheu, C. F. (Dec 2020). *Data Analysis of Three Votes of Kaohsiung City in 2018-2020: Focus on Associations between the Approval Rates of Han Kuo-Yu and Demographic Variables* (presented in Mandarin). Oral presentation at 2020 Annual Conference of Taiwan Political Science Association, Taipei, Taiwan.

**Liao, J. C.\***, Wu, M. H., Su, W. L., & Huang, P. H. (Nov 2019). *Scale of Perceived Stressor for Taiwanese Undergraduates: An Application of Multidimensional Forced-Choice* (presented in Mandarin). Oral presentation at 2019 Annual Conference of Taiwan Psychological Association, Kaohsiung, Taiwan.

**Liao, J. C.\***, Lin, Z. Y., Tsai, M. T., & Strong, C. (Sep 2019). *Associations among same-sex attraction, childhood gender nonconformity and discrimination experiences: Findings from structural equation models in a sample of male adolescents in Taiwan* (presented in Mandarin). Oral presentation at 2019 Annual Conference of Taiwan Public Health Association, Taipei, Taiwan.

**Liao, J. C.**, Yu, Y. F.\*, Yang, T. J., & Cheng, C. P. (May 2019). *Data Analysis of Referenda in Taiwan in 2018: Association among Agreement Rate and Sociodemographic Indices of Counties and Cities* (presented in Mandarin). Poster presentation at 2019 United Annual Conference of Taiwan Applied Psychology Association and Taiwan Association of Biofeedback and Neurofeedback, Kaohsiung, Taiwan.

## REFERRERS

### Anke Piepenbrink, PhD, MBA

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2 Rue Robert d'Arbrissel, 35065  
Rennes, France  
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### Cheng-Te Li, PhD, MS

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### Carol Strong, PhD, MPH

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