



Ying Qing Chen

Professor of Medicine (Quantitative Sciences)

Bio

ACADEMIC APPOINTMENTS

- Professor, Medicine

ADMINISTRATIVE APPOINTMENTS

- Director, Palo Alto Veteran Affairs Cooperative Studies Coordinating Center, (2021- present)

HONORS AND AWARDS

- Fellow, American Statistical Association (2018)

PROFESSIONAL EDUCATION

- BS, Peking University , Mathematics (1992)
- PhD, Johns Hopkins University , Biostatistics (1999)

Research & Scholarship

PROJECTS

- Cytomegalovirus (CMV) Vaccine in Orthotopic Liver Transplant candidates (COLT) - NIH/NIAID U01 AI163090-01 (2021 - present)
- Research on Global Vaccine Application and Trend - Sinovac Biotech (2021 - present)
- 2/2 Ganciclovir to Prevent Reactivation of Cytomegalovirus in Patients with Acute Respiratory Failure and Sepsis - NIH/NHLBI U24 HL147012 (2020 - present)
- Predicting PrEP Uptake and Adherence among Adolescent Girls and Young Women in Sub-Saharan Africa: Leveraging Programmatic and Clinical Trials Data - NIH/NICHD R01HD094682 (2017 - present)
- Methods for Complex Longitudinal Data in HIV/AIDS Prevention Research - NIH/NIAID R56 AI140953 (2018 - 2020)
- Statistical Methods for Adherence Issues in HIV Prevention Research - NIH/NIAID R01 AI121259 (2015 - 2020)
- Statistical Methods for Combination Prevention Studies in HIV/AIDS - NIH/NIMH R01 MH105857 (2014 - 2020)
- Methods for Time-Varying Attribution in Chronic Disease Research - NIH/NCI R01 CA172415 (2013 - 2018)
- Statistical Methods in HIV/AIDS Research - NIH/NIAID R01 AI089341 (2010 - 2014)

Teaching

COURSES

2024-25

- Introduction to Clinical Trials: Design, Conduct, and Analysis: CHPR 211 (Aut)

2023-24

- Introduction to Clinical Trials: Design, Conduct, and Analysis: CHPR 211 (Aut)

2022-23

- Introduction to Clinical Trials: Design, Conduct, and Analysis: CHPR 211 (Aut)

Publications

PUBLICATIONS

- **Estimating attributable risk functions for censored time-to-event in disease prevention research.** *Lifetime data analysis*
Chen, Y. Q., Wang, Y., Zhang, X., Prentice, R. L.
2026; 32 (2)
- **What drives adolescent girls and young women's decisions to persist on PrEP? Results of a comparative qualitative study from a DREAMS program in western Kenya.** *AIDS care*
Matsuno, A., Tollefson, D., Cover, J., Obong'o, C., Gamba, H., Chen, Y. Q., Duerr, A.
2025: 1-11
- **Use of Coronary Artery Bypass Graft Surgery and Percutaneous Coronary Intervention and Associated Outcomes in the ISCHEMIA Trial.** *American heart journal*
White, H. D., O'Brien, S. M., Boden, W. E., Fremes, S. E., Bangalore, S., Reynolds, H. R., Stone, G. W., Ali, Z. A., Parakh, N., Lopez-Sendon, J. L., Wang, Y., Chen, Y. Q., Mark, et al
2025
- **Absorbing Markov chain model of PrEP drug adherence to estimate adherence decay rate and probability distribution in clinical trials** *JOURNAL OF THEORETICAL BIOLOGY*
Dale, R., He, H., Chen, Y.
2025; 604: 112086
- **On Data-Enriched Logistic Regression** *MATHEMATICS*
Zheng, C., Dasgupta, S., Xie, Y., Haris, A., Chen, Y.
2025; 13 (3)
- **Semiparametric Trend Analysis for Stratified Recurrent Gap Times Under Weak Comparability Constraint.** *Statistics in biosciences*
Liu, P., Huang, Y., Chan, K. C., Chen, Y. Q.
2023; 15 (2): 455-474
- **Semiparametric Trend Analysis for Stratified Recurrent Gap Times Under Weak Comparability Constraint** *STATISTICS IN BIOSCIENCES*
Liu, P., Huang, Y., Chan, K., Chen, Y.
2023
- **Population-Level Effectiveness of an Inactivated Whole-Virion COVID-19 Vaccine: A Test Negative Case-Control Study in the Dominican Republic.** *Open forum infectious diseases*
Pérez-Then, E., Miric, M., Qian, H. Z., Chen, Y. Q., Wang, Y., Vallejo, V., Quezada, W., Flaquer, M., Olivo, J., Castillo, J., García, N., Calderón, K., Cueto, et al
2023; 10 (3): ofad075
- **On a simple estimation of the proportional odds model under right truncation.** *Lifetime data analysis*
Liu, P., Chan, K. C., Chen, Y. Q.
2023
- **Pregnancy rates and clinical outcomes among women living with HIV enrolled in HPTN 052** *AIDS CARE-PSYCHOLOGICAL AND SOCIO-MEDICAL ASPECTS OF AIDS/HIV*
Zangeneh, S. Z., Wilson, E. A., Ahluwalia, S., Donnell, D. J., Chen, Y. Q., Grinsztejn, B., Melo, M. G., Godbole, S. V., Hosseinipour, M. C., Taha, T., Kumwenda, J., McCauley, M., Cohen, et al
2022: 1-9
- **Sexual behavior and medication adherence in men who have sex with men participating in a pre-exposure prophylaxis study of combinations of Maraviroc, Tenofovir Disoproxil Fumarate and/or Emtricitabine (HPTN 069/ACTG 5305)** *AIDS AND BEHAVIOR*

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- Mayer, K. H., Yuhas, K., Amico, K., Wilkin, T., Landovitz, R. J., Richardson, P., Marzinke, M. A., Eshleman, S. H., Cottle, L. M., Marcus, C., Chege, W., Rinehart, A. R., Rooney, et al
 2022
- **A Surrogate Measure for Time-Varying Biomarkers in Randomized Clinical Trials.** *Mathematics (Basel, Switzerland)*
 Zhuang, R., Xia, F., Wang, Y., Chen, Y. Q.
 2022; 10 (4)
 - **A surrogate measure for time-varying biomarkers in randomized clinical trials** *Mathematics*
 Y, Z., F, X., Y, W., Y. Q., C.
 2022; 10 (4): 584
 - **Uptake of antiretroviral treatment and viral suppression among men who have sex with men and transgender women in sub-Saharan Africa in an observational cohort study: HPTN 075** *INTERNATIONAL JOURNAL OF INFECTIOUS DISEASES*
 Palumbo, P. J., Zhang, Y., Clarke, W., Breaud, A., Sivay, M., Cummings, V., Hamilton, E. L., Guo, X., Ogendo, A., Kayange, N., Panchia, R., Dominguez, K., Chen, et al
 2021; 104: 465–70
 - **Evaluation of Phylogenetic Methods for Inferring the Direction of Human Immunodeficiency Virus (HIV) Transmission: HIV Prevention Trials Network (HPTN) 052.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
 Zhang, Y., Wymant, C., Laeyendecker, O., Grabowski, M. K., Hall, M., Hudelson, S., Piwowar-Manning, E., McCauley, M., Gamble, T., Hosseinipour, M. C., Kumarasamy, N., Hakim, J. G., Kumwenda, et al
 2021; 72 (1): 30-37
 - **Measuring Surrogacy in Clinical Research With an Application to Studying Surrogate Markers for HIV Treatment-as-Prevention** *STATISTICS IN BIOSCIENCES*
 Zhuang, R., Chen, Y.
 2020; 12 (3): 295–323
 - **Introduction to Special Issue on 'Statistical Methods for HIV/AIDS Research'** *STATISTICS IN BIOSCIENCES*
 Chen, Y.
 2020; 12 (3): 263–66
 - **The feasibility of recruiting and retaining men who have sex with men and transgender women in a multinational prospective HIV prevention research cohort study in sub-Saharan Africa (HPTN 075)** *JOURNAL OF THE INTERNATIONAL AIDS SOCIETY*
 Sandfort, T. G. M., Hamilton, E., Marais, A., Guo, X., Sugarman, J., Chen, Y. Q., Cummings, V., Dadabhai, S., Dominguez, K., Panchia, R., Schnabel, D., Zulu, F., Reynolds, et al
 2020; 23: e25600
 - **Persistence of oral pre-exposure prophylaxis (PrEP) among adolescent girls and young women initiating PrEP for HIV prevention in Kenya** *AIDS CARE-PSYCHOLOGICAL AND SOCIO-MEDICAL ASPECTS OF AIDS/HIV*
 Tapsoba, J., Zangeneh, S. Z., Appelmans, E., Pasalar, S., Mori, K., Peng, L., Tao, J., Drain, P., Okomo, G., Bii, S., Mukabi, J., Zobrist, S., Brady, et al
 2020: 1–9
 - **Trial designs for evaluating combination HIV prevention approaches** *HIV RESEARCH & CLINICAL PRACTICE*
 Chen, Y., Peng, L., Wang, Y., Appelmans, E., Dasgupta, S., Fleming, T. R.
 2020; 21 (2-3): 72–82
 - **Healthcare-related stigma among men who have sex with men and transgender women in sub-Saharan Africa participating in HIV Prevention Trials Network (HPTN) 075 study** *AIDS CARE-PSYCHOLOGICAL AND SOCIO-MEDICAL ASPECTS OF AIDS/HIV*
 Mbeda, C., Ogendo, A., Lando, R., Schnabel, D., Gust, D. A., Guo, X., Akelo, V., Dominguez, K., Panchia, R., Mbilizi, Y., Chen, Y., Chege, W., Sandfort, et al
 2020; 32 (8): 1052–60
 - **On a Statistical Transmission Model in Analysis of the Early Phase of COVID-19 Outbreak** *STATISTICS IN BIOSCIENCES*
 Zhu, Y., Chen, Y.
 2021; 13 (1): 1–17
 - **A regularized estimation approach for case-cohort periodic follow-up studies with an application to HIV vaccine trials** *BIOMETRICAL JOURNAL*
 Zhao, H., Wu, Q., Gilbert, P. B., Chen, Y. Q., Sun, J.

2020; 62 (5): 1176–91

- **Methods for generalized change-point models: with applications to human immunodeficiency virus surveillance and diabetes data** *STATISTICS IN MEDICINE*

Tapsoba, J., Wang, C., Zangeneh, S., Chen, Y.

2020; 39 (8): 1167–82

- **Adjusted time-varying population attributable hazard in case-control studies** *STATISTICAL METHODS IN MEDICAL RESEARCH*

Zhao, W., Zheng, J., Chen, Y., Hsu, L.

2020; 29 (1): 243–57

- **On a Shape-Invariant Hazard Regression Model with application to an HIV Prevention Study of Mother-to-Child Transmission** *STATISTICS IN BIOSCIENCES*

Zheng, C., Chen, Y.

2020; 12 (3): 340–52