

YanJun “Alice” Chen

Curriculum Vitae

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EDUCATION

M.S. (2012), Statistics, University of Washington, Seattle (2010.10-6.2012)

B.S. (2010), Statistics, Fudan University, Shanghai (2006.9-2010.7)

PROFESSIONAL EXPERIENCE

- 2015.10-
Present **Principal Biostatistician - UC Irvine Institute of Clinical and Translational Science**
- Provide statistical consulting service to medical researchers, including study designs, grant proposal, statistical analysis
 - Involve in in-depth statistical methodology research and application in biostatistics area, including clinical trials, multivariate modeling, propensity score, development and validation of prediction models
- 2015.3-
2015.9 **Sr. Biostatistician - UC Irvine Institute of Clinical and Translational Science**
- 2012.7-
2015.2 **Biostatistician - City of Hope Beckman Research Center**
- Perform data manipulation, validation and statistical analyses using SAS
 - Analyze, develop models and interpret data to provide statistical support for clinical professionals.
 - Collaborate with database manager to maintain/re-organize/manipulate large database
- 2011.3-
2012.6 **Research assistant/Statistical analyst - Fred Hutchinson Cancer Research Center, Seattle, WA**
- Performed survival analysis of vaccine efficacy for Flu Mist vaccine using survival analysis/Bayesian modeling with time dependent covariates.
 - Participate in protocol wrote-ups and summarize statistical reports to client.
 - Communicate with clients about statistical analysis plan (SAP)/ data issues/ results interpretations.

PUBLICATIONS

Published

1. Molnar MZ, Nguyen DV, **Chen Y**, Ravel V, Streja E, Krishnan M, Kovesdy CP, Mehrotra R, Kalantar-Zadeh K. Predictive score for post-transplantation outcomes. *Transplantation*, 2016 in-press.
2. Hess LG, Fitzpatrick SE, Nguyen DV, **Chen Y**, Gaul K, Schneider A, Chitwood KL, Eldeeb M, Siyahian S, Polussa J, Hessel D, Hagerman RJ. A randomized double-blind, placebo-controlled trial of

sertraline in young children with fragile X syndrome. *Journal of Developmental & Behavioral Pediatrics*, 2016, in-press.

3. Mikhael M, Cleary JP, Dhar V, **Chen Y**, Nguyen DV, Chang AC. Birth Tourism and Neonatal Intensive Care: A Children's Hospital Experience. *Am J Perinatol*. 2016 May 16 [Epub ahead of print]. PMID: 27183000.
4. Landier W, **Chen Y**, Namdar G, Francisco L, Wilson K, Herrera C, Armenian S, Wolfson JA, Sun CL, Wong FL, Bhatia S. Impact of Tailored Education on Awareness of Personal Risk for Therapy-Related Complications Among Childhood Cancer Survivors. *Journal of Clinical Oncology*. 2015; 33(33):3887-3893. PMID: 26324371 PMCID: PMC4652012
5. Bhatia S, Landier W, Hageman L, **Chen Y**, Kim H, Sun C-L, Kornegay N, Evans WE, Angiolillo AL, Bostrom B, Casillas J, Lew G, Maloney KW, Mascarenhas L, Ritchey AK, Termuhlen AM, Carroll WL, Wong FL, Relling, M. V. Systemic Exposure to Thiopurines and Risk of Relapse in Children with Acute Lymphoblastic Leukemia: A Children's Oncology Group Study. *JAMA Oncology*, 2015, 1(3), 287–295. PMID: 26181173 PMCID: PMC4561178
6. Smita Bhatia, Wendy Landier , Lindsey Hageman , Heeyoung Kim , **Yanjun Chen** , Kristine R. Crews , William E. Evans , Bruce Bostrom , Jacqueline Casillas , David S. Dickens , Kelly W. Maloney , Joseph P. Neglia , Yaddanapudi Ravindranath , A. Kim Ritchey , F. Lennie Wong , Mary V. Relling, 6MP adherence in a multiracial cohort of children with acute lymphoblastic leukemia: a Children's Oncology Group study. *Blood*, 2014 Oct, 124 (15) 2345-2353. PMID: 24829202 PMCID: PMC4192748
7. Yang, Y., Halloran, M. E., **Chen, Y.** and Kenah, E. (2014), A pathway EM-algorithm for estimating vaccine efficacy with a non-monotone validation set. *Biometrics*. 2014 Sep; 70(3):568-78. PMID: 24766139 PMCID: PMC4209209

Working Manuscripts/Submitted

8. Estes JP, Nguyen DV, **Chen Y**, Dalrymple LS, Rhee CM+, Kalantar-Zede K, Senturk D. Time-dynamic profiling with application to hospital readmission among patients on dialysis.
9. Obi Y, Streja E, Rivara MB, Rhee CM, Lau WL, **Chen Y**, Nguyen DV, Kovesdy CP, Mehrotra R, Kalantar-Zadeh K (2016) Development and validation of a new correction equation for total serum calcium and its association with mortality among hemodialysis patients.
10. Rhee CM, **Chen Y**, You SA, Brunelli SM, Kovesdy CP, Brent GA, Kalantar-Zadeh K, Nguyen DV. Thyroid functional disease, quality of life, and mental health in hemodialysis patients.
11. Ligsay A, Dijck AV, Nguyen DV, Lozano R, **Chen Y**, Bickel E, Hessel DR, Schneider A, Angkustsiri K, Tassone F, Kooy RF, Hagerman RJ (2016) A randomized double-blind, placebo-controlled trial of ganaxolone in children and adolescents with fragile X syndrome.
12. Peterson JK, **Chen Y**, Nguyen DV, Setty SP. Current trends in racial, ethnic, and risk factor disparities associated with pediatric cardiac surgery outcomes.

ABSTRACTS

1. Bennett K, Brown J, Robinson R, **Chen Y**, Nguyen DV (2015) Short Term Outcomes Using Blenderized Tube Feedings Among Gastrostomy Dependent Children. *North American Society of Pediatric Gastroenterology, Hepatology and Nutrition*, Washington D.C., October 7-11, 2015.
2. Bolurchi M, **Chen Y**, Pierangelo R, Nguyen DV, Wang R (2016) Aortic root dilatation in mucopolysaccharidosis. *Molecular genetics and metabolism*, 2(117), S29.
3. Molnar M, Nguyen DV, Ravel V, Streja E, Krishnan M, **Chen Y**, Kovesdy CP, Kalantar-Zadeh K (2015) Novel Score to Predict Post-Transplant Outcomes. *American Society of Nephrology* 26. (Annual Meeting, San Diego, CA, Nov 3-8, 2015)
4. Rhee C, **Chen A**, You A, Kovesdy C, Brunelli S, Leung A, Brent G, Kalantar-Zadel K, Nguyen D (2016) Thyroid functional disease, quality of life, and mental health in a prospective hemodialysis cohort. Submitted (*ASN Annual Meeting*, Chicago, IL, Nov 15-20, 2016)

TEACHING ACTIVITIES

Lecture: “Drug adherence of 6MP in a multiracial cohort of children with acute lymphoblastic leukemia”

- UC Irvine, Program: California State Summer School for Mathematics and Science (COSMOS), 7.21.15
- UC Irvine, Program: California State Summer School for Mathematics and Science (COSMOS), 7.22.16

Teaching Assistant – Department of Statistics, University of Washington, 2010

GRANTS

Current Grants/Research Support

R01 DK092232

Senturk, D., Nguyen D.V. (PI's) 02/01/16-1/31/20

NIH/NIDDK

\$1,354,810 (total)

Title: Modeling Time Dynamic Multilevel Outcomes in Patients on Dialysis

To date, there does not exist a feasible framework for estimation and dual inference (patient-and facility-level) in multilevel varying coefficient modeling (MVCM) that accommodates multilevel longitudinal data structures. Our work will be the first to study both patient- and facility-level inference in MVCM simultaneously and to flexibly model facility-level effects that span a spectrum of models, including facility (i) fixed effects, (ii) constant random effects, and (iii) random effects functions of time (random coefficient functions). This will also be the first study to examine continuous dialysis facility performance assessment from initiation of dialysis and allow for identification of specific time periods for targeted patient outcome improvement.

Role: Principal Biostatistician

UL1 TR000153

Cooper, D. (PI)

09/01/15-08/31/20

NIH/NCATS

\$15,135,525 (total direct)

UC Irvine Institute for Clinical and Translational Science (ICTS)

UC Irvine Institute for Clinical and Translational Sciences' (ICTS) mission is to accelerate the discovery of new treatments across the spectrum of human disease/injury. The UC Irvine ICTS functions as a local centerpiece for the national program and is dedicated to accelerating scientific discovery and medical breakthroughs to the bedside.

Role: Principal Biostatistician, Biostatistics, Epidemiology and Resign Design (BERD) Unit

R01 DK101623

Sorkin, D (PI)

09/15/14-09/14/19

NIH/NIDDK

\$2,929,986 (total)

Title: Unidas por la Vida: A Healthy Lifestyle Intervention for High-risk Latina Dyads

This randomized clinical study of weight loss for two interventions: a behavioral lifestyle intervention uniquely designed to leverage the mother-daughter relationship (partner-based intervention) compared to individual-based intervention or in a usual care control group for Mexican-American mothers with type 2 diabetes and Mexican-American overweight or obese adult daughters at risk for diabetes.

Role: Principal Biostatistician

COMPUTING/SOFTWARE: R, SAS, JMP, PASS, SQL, Matlab, C, MS office, REDCap

RELEVANT COURSES

- Statistical (Machine) Learning (MRF, belief theory, Bayesian network, Optimization, Boosting, SVM)
- Advance Regression Methods (Longitudinal data, Observational data, Bayesian)
- Data Analysis and Report Writing
- Statistics Software (R and SAS)
- Stochastic Modeling for Scientific Data
- Design and Analysis of Experiment
- Categorical Data Analysis
- Multivariable Analysis
- Nonparametric Analysis
- Time Series Analysis
- C++ Programming
- Data Structure and algorithm

CONTINUING EDUCATION COURSES

- Applied Longitudinal Analysis – Joint Statistical Meetings, Seattle, Washington, Aug. 2015
- Analysis of Clinical Trials: Theory and Application – Joint Statistical Meetings, Seattle, Washington, Aug. 2015
- Introduction to Bayesian Methods, Computation, and Modeling – Joint Statistical Meetings, Chicago, Aug. 2016
- A Statistical Approach to Machine Learning: Boosting, Nearest Neighbors, Random Forests, and Support Vector Machines – Joint Statistical Meetings, Chicago, Aug. 2016