

Yueh-Yun Chi

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EDUCATION

- 2005 Ph.D. in Biostatistics
University of North Carolina, Chapel Hill, NC
Dissertation: “Bayesian Methods for Longitudinal and Survival Data with Applications to Clinical Trials and Genomics”
- 1999 M.S. in Biostatistics
National Taiwan University, Taipei, Taiwan
Thesis: “Information Visualization for Comparing Two Sets of Variables”
- 1997 B.S. in Public Health
National Taiwan University, Taipei, Taiwan

ACADEMIC APPOINTMENTS

- 2016- Research Associate Professor
Department of Biostatistics, Colleges of Medicine and Public Health & Health Professions, University of Florida, Gainesville, FL
- 2010-2016 Assistant Professor
Department of Biostatistics, Colleges of Medicine and Public Health & Health Professions, University of Florida, Gainesville, FL
- 2007-2010 Assistant Professor
Division of Biostatistics, Department of Epidemiology and Health Policy Research, College of Medicine, University of Florida, Gainesville, FL
- 2005-2007 Postdoctoral Research Fellow
Department of Biostatistics, School of Public Health, University of Washington
The National Alzheimer's Coordinating Center (NACC)
U.S. Department of Veterans Affairs Seattle Medical Center
- 2001-2005 Graduate Research Assistant
Department of Biostatistics, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 1999-2001 Research Assistant
Institute of Statistical Science, Academia Sinica, Taipei, Taiwan

HONORS

2005 Max Halperin Scholarship Award
2004 Travel award by the ASA Section on Bayesian Statistical Science
1999 Outstanding Graduate Award
1997-1999 Presidential Awards

PROFESSIONAL MEMBERSHIPS AND SERVICES

The American Statistical Association (ASA)
International Biometrics Society/Eastern North American Region (ENAR)
Secretary/Treasurer, ASA Statistics in Epidemiology Section (2016-2018)
President, ASA Florida Chapter (2017-2019)
Vice President, ASA Florida Chapter (2015-2017)
Member, 2017 ENAR Program Committee
Concentration coordinator, MPH program, UF Colleges of Public Health & Health Professions (2014-)
Chair, 2014 Florida Chapter of the ASA annual meeting (Gainesville, FL)
Organizer, invited session “Power Analysis for Mixed Models: Where We Stand”, 2014 annual International Biometrics Society/ENAR conference (Baltimore, MD)
Chair, invited session, 2014 annual Conference on Statistical Practice (Tampa, CA)
Ad-hoc reviewer, 2014 Spring Study Section, Rehabilitation Research and Development Service, Veterans Health Administration
Seminar coordinators, UF Department of Biostatistics (2013-2014)
Organizer and chair, invited session “New Statistical Methods in Diagnostic Medicine”, 2008 annual International Biometrics Society/ENAR conference (Crystal City, VA)
Advisor of the UF Taiwanese Student Association, 2008.

PUBLICATIONS (IN REVERSE CHRONOLOGICAL ORDER)

1. Ferrari A, Chi YY, de Salvo GL, Orbach D, Brennan B, Randall RL, McCarville MB, Black JO, Alaggio R, Hawkins DS, Bisogno G, and Spunt SL (2017) Surgery alone is sufficient therapy for children and adolescents with low-risk synovial sarcoma: a joint analysis from the European paediatric Soft tissue sarcoma Study Group and the Children's Oncology Group. *European Journal of Cancer*, in press.
2. Petersen JW, Liu J, Chi YY, Lingis M, Williams RS, Rhoton-Vlasak A, Segal MS, Conrad K (2017) Comparison of Multiple Non-Invasive Methods of Measuring Cardiac Output During Pregnancy Reveals Marked Heterogeneity in the Magnitude of Cardiac Output Change Between Women. *Physiological Reports*, in press.
3. Ermoian RP, Breneman J, Walterhouse DO, Chi YY, Meza J, Anderson J, Hawkins DS, Hayes-Jordan AA, Parham DM, Yock TI, Donaldson SS, Wolden SL (2017) 45Gy is Not Sufficient Radiotherapy Dose for Group III Orbital

Embryonal Rhabdomyosarcoma after less than Complete Response to 12 weeks of ARST0331 Chemotherapy. A Report from the Soft Tissue Sarcoma Committee of the Children's Oncology Group. *Pediatric Blood & Cancer*, in press.

4. Gupta AA, Chi YY, Anderson J, Lyden E, Weigel B, Arndt C, Meyer W, Rosenberg AR, Hawkins DS (2017) Patterns of Chemotherapy-Induced Toxicities and Outcome in Children and Adolescents with Metastatic Rhabdomyosarcoma: a report from the Children's Oncology Group. *Pediatric Blood & Cancer*, in press.
5. Venkatramani R, Chi YY, Coppes MJ, Malogolowkin M, Kalapurakal JA, Tian J, and Dome JS (2017) Outcome of Patients with Intracranial Relapse Enrolled on National Wilms Tumors Study Group Clinical Trials. *Pediatric Blood & Cancer*, in press.
6. Gratias E, Dome JS, Jennings LJ, Chi YY, Tian J, Anderson J, Grundy P, Mullen EA, Geller JI, Fernandez CV, Perlman EJ (2017) Association of Chromosome 1q Gain with Inferior Survival in Favorable Histology Wilms Tumor: A Report from the Children's Oncology Group. *Journal of Clinical Oncology*, in press.
7. Fernandez CV, Perlman EJ, Mullen EA, Chi YY, Hamilton TE, Gow KW, Ferrer FA, Barnhart D, Ehrlich PF, Khanna G, Kalapurakal JA, Bocking T, Huff V, Tian J, Geller JI, Grundy PE, Anderson JR, Dome JS, Shamberger RC (2017) Clinical Outcome and Biological Predictors of Relapse Following Nephrectomy Only for Very Low-Risk Wilms tumor (VLRWT). A report from Children's Oncology Group AREN0532. *Annals of Surgery*, in press.
8. Ooms A, Gadd S, Gerhard DS, Smith MA, Guidry Auvil JM, Meerzaman D, Chen QR, Hsu CH, Yan C, Nguyen C, Hu Y, Ma Y, Zong Z, Mungall AJ, Moore RA, Marra MA, Huff V, Dome JS, Chi YY, Tian J, Geller JI, Mullighan CG, Ma J, Wheeler DA, Hampton OA, Walz AL, van den Heuvel-Eibrink MM, de Krijger RR, Ross N, Gastier-Foster JM, Perlman EJ (2016) Significance of TP53 Mutation in Wilms Tumors with Diffuse Anaplasia: A Report from the Children's Oncology Group. *Clinical Cancer Research*, 22, 5582-5591.
9. Floyd E, Versen-Höynck F, Liu J, Chi YY, Fleischmann R, Baker V (2016) Collection of Pregnancy Outcome Records Following Infertility - Challenges and Possible Solutions. *Journal of Assisted Reproduction and Genetics*, 1-7.
10. Rios-Avila L, Coats B, Ralat M, Chi YY, Midttun O, Uelan PM, Stacpoole PW, and Gregory JF (2015) Pyridoxine Supplementation Does Not Alter the In Vivo Kinetics of One-Carbon Metabolism but Modifies Patterns of One-Carbon and Tryptophan Methbolites in Vitamin B-6 Insufficient Oral Contraceptive Users. *American Journal of Clinical Nutrition*, 102, 616-625. PMID 26201817; PubMed Central PMCID: PMC4548178.
11. Lathi RB, Chi YY, Liu J, Saravanabavanandhan B, Hegde A, and Baker VL (2015) Frozen Blastocyst Embryo Transfer Using A Supplemented Natural Cycle Protocol Has A Similar Live Birth Rate Compared to A Programmed Cycle Protocol. *Journal of Assisted Reproduction and Genetics*, 32, 1057-1062. PMID 26018319; PubMed Central PMCID: PMC4531857.

12. Walz AL, Ooms A, Gadd S, Gerhard DS, Smith MA, Guidry Auvil JM, Meerzaman D, Chen QR, Hsu CH, Yan C, Nguyen C, Hu Y, Bowlby R, Brooks D, Ma Y, Mungall AJ, Moore RA, Schein J, Marra MA, Huff V, Dome JS, Chi YY, Mullighan CG, Ma J, Wheeler DA, Hampton OA, Jafari N, Ross N, Gastier-Foster JM, Perlman EJ (2015) Recurrent DGCR8, DROSHA, and SIX Homeodomain Mutations in Favorable Histology Wilms Tumors. *Cancer Cell*, 27, 286-197. PubMed PMID: 25670082.
13. Kirst M, Li E, Alfant B, Chi YY, Walker C, Magnusson I, and Wang G (2015) Dysbiosis and Alterations in Predicted Functions of Subgingival Microbiome in Chronic Periodontitis. *Applied and Environmental Microbiology*, 81, 783-793. PubMed PMID:25398868; PMCID: PMC4277562
14. Rios-Avila L, Coats B, Chi YY, Midttun O, Uelan PM, Stacpoole PW, and Gregory JF (2015) Metabolite Profile Analysis Provides Insights into the Association of Vitamin B-6 with One-Carbon Metabolism, Tryptophan Catabolism and Inflammation in Oral Contraceptive Users and Reveals the Effects of Oral Contraceptives on these Processes. *Journal of Nutrition*, 145, 87-95. PubMed PMID: 25527663.
15. Chi YY, Gribbin MJ, Johnson JL, and Muller KE (2014) Power Calculations for Overall Hypothesis Testing with High Dimensional Commensurate Outcomes. *Statistics in Medicine*, 33(5), 812-827. PMID 24122945; PubMed Central PMCID: PMC4072336.
16. DeRatt BN, Ralat MA, Kabil O, Chi YY, Banerjee R, and Gregory JF (2014) Vitamin B-6 Restriction Reduces the Production of Hydrogen Sulfide and its Biomarkers by the Transsulfuration Pathway in Cultured Human Hepatoma Cells. *Journal of Nutrition*, 144, 1501-1508. PMCID: PMC 4162474.
17. da Silva VR, Ralat MA, Quinlivan EP, DeRatt BN, Garrett TJ, Chi YY, Frederik Nijhout H, Reed MC, and Gregory JF (2014) Targeted Metabolomics and Mathematical Modeling Demonstrate that Vitamin B6 Restriction Alters One-Carbon Metabolism in Cultured HepG2 Cells. *American Journal of Physiology - Endocrinology and Metabolism*, 307(1): E93-E101. PubMed PMID: 24824655; PMCID: PMC 4080146.
18. Chi YY and Muller KE (2013) Two-Step Hypothesis Testing When the Number of Variables Exceeds the Sample Size. *Communications in Statistics – Simulation and Computation*, 42, 1113-1125.
19. Gribbin MJ, Chi YY, Stewart PW, and Muller KE (2013) Confidence Regions for Repeated Measures ANOVA Power Curves Based on Estimated Covariance. *BMC Medical Research Methodology*, 13(1): 57. doi:10.1186/1471-2288-13-57. PMCID: PMC 3738257.
20. da Silva VR, Rios-Avila L, Lamers Y, Ralat MA, Midttun Ø, Quinlivan EP, Garrett TJ, Coats B, Shankar MN, Percival SS, Chi YY, Muller KE, Ueland PM, Stacpoole PW, and Gregory JF (2013) Metabolite Profile Analysis Reveals Functional Effects of Vitamin B-6 Restriction on One-Carbon Metabolism and Tryptophan Catabolic Pathways in Healthy Men and Women. *Journal of Nutrition*, 143, 1719-1727. PMCID: PMC 3796343.
21. Gregory JF, Park Y, Lamers Y, Bandyopadhyay N, Chi YY, Lee K, Kim S, da Silva VR, Hove N, Ranka S, Kahveci T, Muller KE, Stevens RD, Newgard CB,

- Stacpoole PW, and Jones DP (2013) Metabolomic Analysis Reveals Extended Metabolic Consequences of Marginal Vitamin B-6 Deficiency in Healthy Human Subjects. *PLoS ONE*, 8(6): e63544. doi:10.1371/journal.pone.0063544. PMID: PMC 3679127.
22. Mohandas R, Sautina L, Li S, Wen S, Huo T, Handberg E, Chi YY, Merz NB, Pepine CJ (2013) Number and Function of Bone-Marrow Derived Angiogenic Cells and Coronary Flow Reserve in Women without Obstructive Coronary Artery Disease: A Substudy of the NHLBI-Sponsored Women's Ischemia Syndrome Evaluation (WISE). *PLoS ONE*, 8(12): e81595. PMID: PMC 3846855.
 23. Chi YY, Gribbin M, Lamers Y, Gregory JF, and Muller KE (2012) Global Hypothesis Testing for High Dimensional Repeated Measures Outcomes, *Statistics in Medicine*, 31, 724-742. PMID: PMC3396026.
 24. Chi YY (2012) Overview of Multivariate Methods. *Wiley Interdisciplinary Reviews: Computational Statistics*, 4, 35-47.
 25. Zhu H, Ibrahim JG, Chi YY, and Tang N (2012) Bayesian Influence Measures for Joint Models for Longitudinal and Survival Data, *Biometrics*, 68, 954-964. PMID: PMC 3496431.
 26. Zhao M, Lamers Y, Ralat M, Coats B, Chi YY, Muller KE, Bain JR, Shankar MN, Newgard CB, Stacpoole PW, and Gregory JF (2012) Marginal Vitamin B-6 Deficiency Decreases Plasma n-3 and n-6 Polyunsaturated Fatty Acid Concentrations in Health Men and Women, *Journal of Nutrition*, 142, 1791-1797. PMID: PMC 3442793.
 27. Stahl JM, Chi YY, and Friedman WA (2012) Repeat Radiosurgery for Intracranial Arteriovenous Malformations, *Neurosurgery*, 70, 150-154. PubMed PMID 31743357.
 28. Rahman M, Cox JB, Chi YY, Carter JH, and Friedman WA (2012) Radiographic Response of Brain Metastasis after Linear Accelerator Radiosurgery, Stereotactic and Functional Neurosurgery, 90, 69-78. PubMed PMID 22286386.
 29. Hoh BL, Kleinhenz DT, Chi YY, Mocco J, and Barker FG (2011) Incidence of Ventricular Shunt Placement for Hydrocephalus with Clipping versus Coiling for Ruptured and Unruptured Cerebral Aneurysms in the Nationwide Inpatient Sample Database: 2002-2007, *World Neurosurgery*, 76, 548-554. PubMed PMID 22251503.
 30. Lawson MF, Newman WC, Chi YY, Mocco J, and Hoh BL (2011) Stent-Associated Flow Remodeling Causes Further Occlusion of Incompletely Coiled Aneurysms, *Neurosurgery*, 69, 598-604. PubMed PMID 21430583.
 31. Hoh BL, Nathoo S, Chi YY, Mocco J, and Barker FG (2011) Incidence of Seizures or Epilepsy after Clipping versus Coiling of Ruptured and Unruptured Cerebral Aneurysms in the Nationwide Inpatient Sample Database: 2002-2007, *Neurosurgery*, 69, 644-650. PubMed PMID 21499155.
 32. Kimball MM, Foote KD, Bova FJ, Chi YY, and Friedman WA (2011) Linear Accelerator Radiosurgery for Nonvestibular Schwannomas, *Neurosurgery*, 68, 974-984. PubMed PMID 21221035.

33. Chi YY and Muller KE (2010) Using Scientifically and Statistically Sufficient Statistics in Comparing Image Segmentations, *Statistics and Its Interface*, 3, 91-101. PubMed PMID: 24967000; PMCID: PMC 4067051.
34. Hoh BL, Chi YY, Waters MF, Mocco J, and Barker FG (2010) Effect of Weekend Compared With Weekday Stroke Admission on Thrombolytic Use, In-Hospital Mortality, Discharge Disposition, Hospital Charges, and Length of Stay in the Nationwide Inpatient Sample Database, 2002 to 2007, *Stroke*, 41, 2323-2328. PubMed PMID 20724715.
35. Burdick A, Fernandez HH, Okun MS, Chi YY, Jacobson C, and Foote KD (2010) Relationship between Higher Rates of Adverse Events in Deep Brain Stimulation Using Standardized Prospective Recording and Patient Outcomes, *Neurosurgical Focus*, 29, E4. PubMed PMID 20672921.
36. Lawson MF, Chi YY, Velat GJ, Mocco J, and Hoh BL (2010) Timing of Aneurysm Surgery: The International Cooperative Study Revisited in the Era of Endovascular Coiling, *Journal of Neurointerventional Surgery*, 2, 131-134. PubMed PMID 21990592.
37. Lewis SB, Wolper R, Chi YY, Miralia L, Wang Y, Yang C, and Shaw G (2010) Identification and Preliminary Characterization of Ubiquitin C Terminal Hydrolase 1 (UCHL1) as a Biomarker of Neuronal Loss in Aneurysmal Subarachnoid Hemorrhage, *Journal of Neuroscience Research*, 88, 1475-1484. PubMed PMID 20077430.
38. Hoh BL, Chi YY, Lawson MF, Mocco J, and Barker FG (2010) Length of Stay and Total Hospital Charges of Clipping versus Coiling for Ruptured and Unruptured Adult Cerebral Aneurysms in the Nationwide Inpatient Sample Database: 2002-2006, *Stroke*, 44, 337-342. PubMed PMID 20044522.
39. Raffa SJ, Chi YY, Bova FJ, and Friedman WA (2010) Validation of the Radiosurgery-based Arteriovenous Malformation Score in a Large Linear Accelerator Radiosurgery Experience, *Journal of Neurosurgery*, 111, 832-839. PubMed PMID 219445567.
40. Rajon DA, Bova FJ, Chi YY, and Friedman WA (2009) Rapid Fabrication of Custom Patient Biopsy Guides, *Journal of Applied Clinical Medical Physics*, 10, 260-272. PubMed PMID 19918219.
41. Huang IC, Thompson LA, Chi YY, Knapp CA, Revicki DA, Seid M, and Shenkman EA (2009) The Linkage between Pediatric Quality of Life and Health Conditions: Establishing Clinically Meaningful Cutoff Scores for the PedsQL, *Value in Health*, 12, 773-781. PubMed PMID 19508660.
42. Reavey-Cantwell JF, Fox WC, Reichwage BD, Fautheree GL, Velat GJ, Whiting JH, Chi YY, and Hoh BL (2009) Factors Associated with Aspirin Resistance in Patients Premedicated with Aspirin and Clopidogrel for Endovascular Neurosurgery, *Neurosurgery*, 64, 890-896. PubMed PMID 19287328.
43. Hoh BL, Chi YY, Dermott MA, Lipori PJ, and Lewis SB (2009) The Effect of Coiling versus Clipping of Ruptured and Unruptured Cerebral Aneurysms on Length of Stay, Hospital Cost, Hospital Reimbursement, and Surgeon Reimbursement at a Southeast United States Academic Neurovascular Center, *Neurosurgery*, 64, 614-621. PMID 19197221.

44. Kimball MM, Friedman WA, Foote KD, Bova FJ, and Chi YY (2009) Linear Accelerator Radiosurgery for Cavernous sinus meningiomas, *Stereotactic and Functional Neurosurgery*, 87, 120-127. PubMed PMID 19246961.
45. Chi YY and Zhou XH (2008) Receiver Operating Characteristic Surfaces in the Presence of Verification Bias, *Applied Statistics*, 57, 1-23.
46. Chi YY and Zhou XH (2008) The Need for Reorientation toward Cost-effective Prediction: Comments on 'Evaluating the Added Predictive Ability of a New Marker: From Area Under the ROC Curve to Reclassification and Beyond' by Pencina et al., *Statistics in Medicine*, 27, 182-184. PMID 17712782.
47. Chen MH, Ibrahim JG, and Chi YY (2008) A New Class of Mixture Models for Differential Gene Expression in DNA Microarray Data, *Journal of Statistical Planning and Inference*, 138, 387-404. PMCID: PMC 2724022.
48. Hoh BL, Lang SS, Ortiz MV, Chi YY, Lewis SB, and Pincus DW (2008) Lower Incidence of Reoperation and Longer Shunt Survival for Adult Ventriculoperitoneal Shunts Placed for Hemorrhage-Related Hydrocephalus, *Neurosurgery*, 63, 70-75. PubMed PMID 18728570.
49. Jayadev S, Steinbart EJ, Chi YY, Kukull WA, Schellenberg GD, and Bird TD (2008) Conjugal Alzheimer Disease: Risk in Children When Both Parents Have Alzheimer Disease, *Archives of Neurology*, 65, 373-378. PubMed PMID 18332250.
50. Chi YY and Ibrahim JG (2007) Bayesian Approaches to Joint Longitudinal and Survival Models Accommodating Both Zero and Nonzero Cure Fractions, *Statistica Sinica*, 17, 445-462.
51. Chi YY, Ibrahim JG, Bissahoyo A, and Threadgill DW (2007) Bayesian Hierarchical Modeling for Time Course Microarray Experiments, *Biometrics*, 63, 496-504. PubMed PMID 17688501.
52. Ahn J, Marron JS, Muller KE, and Chi YY (2007) The High Dimension, Low Sample Size Geometric Representation Holds Under Mild Conditions, *Biometrika*, 94, 760-766.
53. Koepsell TD, Chi YY, Zhou XH, Lee WW, Ramos EM, and Kukull WA (2007) An Alternative Method for Estimating Efficacy of the AN1792 Vaccine for Alzheimer's Disease, *Neurology*, 69, 1868-1872.
54. Chi YY and Ibrahim JG (2006) Joint Models for Multivariate Longitudinal and Multivariate Survival Data, *Biometrics*, 62, 432-445. PubMed PMID 16918907.
55. Rao M, Stough J, Chi YY, Muller KE, Tracton GS, Pizer SM, and Chaney EL (2005) Comparison of Human and Automatic Segmentations of Kidneys from CT Images, *International Journal of Radiation Oncology, Biology and Physics*, 61, 954-960. PubMed PMID 15708280.
56. Hwu HG, Chen CH, Hwang T J, Liu CM, Cheng JJ, Lin SK, Liu SK, Chen CH, Chi YY, Ouyoung CW, Lin HN, and Chen WJ (2002) Symptom Patterns and Subgrouping of Schizophrenic Patients: Significance of Negative Symptoms Assessed on Admission, *Schizophrenia Research*, 56, 105-119. PubMed PMID 12084425.
57. Chie WC, Liu YH, Chi YY, Wu V, and Chen A (1997) Predictive Factors for Early Menarche in Taiwan, *Journal of Formosan Medical Association* 96, 446-450.

Conference Abstracts/Proceedings

1. Rios-Avila L, Coats B, Chi YY, Midttun Ø, Ueland P, Stacpoole P, Gregory J. (2014) Association of One-Carbon and Tryptophan Metabolites with Vitamin B-6 Concentrations in Oral Contraceptive Users. *Journal of the Federation of American Societies for Experimental Biology*, 28 (1 Supplement), 827-7.
2. Conrad KP, Segal MS, Keller-Wood M, Chi YY, Hamilton KK, Williams RS, Rhoton-Vlasak A, Nichols WW, Liu J. (2014) Evidence for Impaired Maternal Circulatory Adaptations in Pregnancies Conceived Using Donor Eggs. *Reproductive Sciences*, 21, 282A-282A.
3. Park Ki, Huo T, Chi YY, Handberg EM, Neda A, Junge C, Losordo DW, Pepine CJ, and Anderson R (2013) Electromechanical Assessment of Myocardial Function (NOGA) is Associated with Exercise Improvement in Patients Treated with Autologous Stem Cell Therapy for Refractory Angina. *Journal of the American College Cardiology*, 61 (10_S).
4. Chao, M, Lamers, Y, Ralat, MA, Coats B, Stacpoole P, Chi YY, Muller KE, Bain JR, Newgard CB, Gregory J. (2011) Marginal Vitamin B6 Deficiency Affects Fatty Acid Profiles in Healthy Men and Women. *Journal of the Federation of American Societies for Experimental Biology*, 25 (1 Supplement), 586-3.
5. Dunbar EM, Dong HJ, Liu C, Chi YY, Keeling C, Yachnis AT (2010) Unexpected Long-Term Control of Recurrent Gliomatosis Cerebri with Capecitabine: A Possible Molecular Explanation. *Neuro-Oncology*, 12, 80-80.
6. Chi YY (2008) Assessment of Three-Class Diagnostic Tests When Disease Verification is Subject to Selection. *International Conference on BioMedical Engineering and Informatics*, 2, 763-767.
7. Dunbar E, Chi YY, Keeling C, Friedman W, Frentzen B (2008) Do Brain Tumor Self-Rated Karnofsky Performance Status Scores Correlate with Physician-Rated Scores? *Neuro-Oncology*, 10, 877-877.
8. Knopman D, Boeve BS, Caselli R, Graff-Radford N, Kramer J, Mendez M, Miller B, Chi, Y. Y. (2007) Development of a methodology for conducting clinical trials in frontotemporal lobar degeneration. *Neurology*, 68, A349-A349.
9. Gerig G, Muller KE, Kistner EO, Chi YY, Chakos M, Styner M, and Lieberman JA (2003) Age and Treatment Related Local Hippocampal Changes in Schizophrenia Explained by a Novel Shape Analysis Method, *MICCAI*, 2, 653-660.
10. Chang SC, Chen CH, Chi YY, and Ouyoung CW (2002) Relativity and Resolution for High Dimensional Information Visualization with Generalized Association Plots (GAP). Section for Invited Paper, *Proceedings in Computational statistics*, Berlin, Germany, 55-66.

CONFERENCES AND SYMPOSIUMS (IN REVERSE CHRONOLOGICAL ORDER)

Invited Presentations:

1. Chi YY (June 2016) Pathway and Set-Based Analysis for High Dimensional Data. *ICSA Chinese Statistics Conference* (Qingdao, China).

2. Chi YY (April 2016) Sample Size for Fixed Effects Inference in Linear Mixed Models. *Collaborative Studies Coordinating Center, University of North Carolina* (Chapel Hill, NC).
3. Chi YY (July 2015) Power Calculation for Longitudinal Mixed Models. *Division of Epidemiology, University of Utah* (Salt Lake City, Utah).
4. Chi YY (October 2014) Statistical Considerations for Longitudinal Design and Data Analysis. *Radiation Effects Research Foundation* (Hiroshima, Japan).
5. Chi YY, and Muller KE (March 2014) Sample Size for Fixed Effect Inference in Longitudinal and Multilevel Mixed Models. *Annual Meeting of the International Biometrics Society: Eastern North American Region* (Baltimore, MD).
6. Chi YY (January 2014) Hypothesis Testing for Gene Set-Based Analysis. *Institute of Statistical Science, Academia Sinica, Taipei, Taiwan*. Invited Seminar.
7. Chi YY (January 2014) Statistical Inference for Pathway Analysis. *Department of Statistics, National Cheng Kung University, Tainan, Taiwan*. Invited Seminar.
8. Chi YY, Gribbin MJ, and Muller KE (June 2012) Power Calculation for the Overall Test, with More Variables than Subjects. *Annual Meeting of the International Biometrics Society: Western North American Region* (Fort Collins, CO).
9. Chi YY (July 2011) Meeting the Challenge of Analyzing High Dimension, Low Sample Size Data. *Department of Biostatistics and Informatics, University of Colorado Denver*. Invited Seminar.
10. Chi YY (August 2010) Global Hypothesis Testing for High Dimensional Outcomes. *Vaccine and Infectious Disease Division, Fred Hutchinson Cancer Center*. Invited Seminar.
11. Chi YY and Muller KE (December 2008) Object Oriented Analysis for Image Segmentation. *Statistical Computation and Visualization* (Taipei, Taiwan).
12. Chi YY and Zhou XH (May 2008) ROC Surfaces in the Presence of Verification Bias. *International Conference on BioMedical Engineering and Informatics* (Sanya, China).
13. Chi YY and Zhou XH (June 2007) ROC Surfaces in the Presence of Verification Bias. *Taipei International Statistical Symposium and ICSA International Conference* (Taipei, Taiwan).
14. Chi YY and Ibrahim JG (January 2007) Bayesian Hierarchical Modeling for Time Course Microarray Experiments. *Department of Epidemiology and Health Policy Research, University of Florida*. Invited Seminar.
15. Chi YY and Zhou XH (December 2006) Maximum Likelihood Inference on Three-way ROC Surfaces in the Presence of Differential Verification. *Department of Public Health Sciences, University of California, Davis*. Invited Seminar.
16. Chi YY and Ibrahim JG (April 2006) Joint Models for Multivariate Longitudinal and Multivariate Survival Data. *Department of Biostatistics, University of Washington*. Invited Seminar.

Contributed Presentations:

1. Chi YY (June 2014) High-Dimensional Pathway and Set-Based Analysis. *Annual Meeting of the International Biometrics Society: Western North American Region* (Honolulu, HI).

2. Chi YY (November 2013) Overall Testing for High Dimensional Pathway Analysis. *Impact on Large-Scale Genomic Data on Statistical and Quantitative Genetics Conference* (Seattle, WA).
3. Chi YY (August 2013) Overall Testing and Power Calculation for Studies with High Dimensional Data. *Joint Statistical Meeting* (Montreal, Quebec, Canada).
4. Chi YY (March 2011) Two-Step Hypothesis Testing When the Number of Variables Exceeds the Sample Size. *Annual Meeting of the International Biometrics Society: Eastern North American Region* (Miami, FL).
5. Chi YY and Muller KE (March 2010) A Univariate Approach to Repeated Measures and MANOVA for High Dimension, Low Sample Size. *Annual Meeting of the International Biometrics Society: Eastern North American Region* (New Orleans, LA).
6. Chi YY and Muller KE (August 2009) Invariance Properties of Multivariate Tests with High Dimension, Low Sample Size. *Annual Joint Statistical Meetings* (Washington, DC).
7. Chi YY and Muller KE (March 2009) The Univariate Approach to Repeated Measures for High Dimension, Low Sample Size. *Annual Meeting of the International Biometrics Society: Eastern North American Region* (San Antonio, TX).
8. Chi YY and Muller KE (March 2008) Comparing Image Segmentation with Scientific and Statistical Sufficiency. *Annual Meeting of the International Biometrics Society: Eastern North American Region* (Atlanta, GA).
9. Chi YY and Muller KE (March 2006) High Dimension, Low Sample Size Principal Components. *Annual Meeting of the International Biometrics Society: Eastern North American Region* (Tampa, FL).

AD-HOC JOURNAL REVIEWS

Applied Statistics, 2008, 2013
 Biometrical Journal, 2013
 BMC Research Notes 2013
 Journal of Multivariate Analysis, 2013
 Communication in Statistics, 2012
 Computational Statistics and Data Analysis, 2010
 Journal of Nutrition, 2011
 Journal of Statistical Planning and Inference, 2008
 Life Time Analysis, 2013
 Multivariate Behavioral Research, 2010
 Statistics in Medicine, 2007(x2), 2010, 2011(x2), 2017
 American Journal of Obstetrics and Gynecology, 2014

TEACHING

Instructor, University of Florida

Advanced Biostatistics I (PHC 7090): 2015-2016
 Longitudinal Data Analysis (PHC 7056): 2015
 Biostatistical Methods I (PHC 6050C): 2012-2013
 Applied Biostatistics (GMS 5905, GMS 6862): 2009-2011
 Design and Analysis of Translational Research in Biomedical Sciences (GMS 6841): 2012

Introduction to Clinical and Translation Research (GMS 7093): 2011-2013 (Group Leader)

Guest Lecturer, University of Florida

Biostatistics Journal Club: 2012-2015
Epidemiology Journal Club: 2010
Chemometrics: 2011
Longitudinal Research Design: 2008

GRADUATE COMMITTEES

Ph.D. Committees

Chair: Xinrui Zhang (UF Biostatistics, 2016)
Member: Mei Zhao (UF Nutritional Sciences, 2011), Xiaofan Xu (UF Statistics, 2014),
Luisa Rios-Avila (UF Nutritional Sciences, 2014), Li Li (UF Biostatistics),
Barbara DeRatt (Nutritional Sciences)

M.S. Committees

Chair: Justine Pierson (UF Biostatistics, 2014), Zijun Shen (UF Biostatistics, 2015)
Member: Hui Yan (UF Biostatistics, 2013), Xinrui Zhang (UF Biostatistics, 2013), Shuo
Zhang (UF Biostatistics, 2014), Changyi Li (UF Biostatistics, 2015), Yuqi Liang
(UF Biostatistics, 2015)

M.P.H. Committees

Chair: Gabriela Ghita (UF Biostatistics, 2016), Jordan Creed (UF Biostatistics)

EXTERNAL GRANTS AND CONTRACTS

NIH/NICHD P01-HD65647 (PI: Conrad) Corpus Luteal Contribution to Maternal Pregnancy Physiology and Outcomes in ART Role: Director of Data Management and Biostatistics Core	1/25/13- 2/28/17
NIH/NCI 1U10CA180899 (PI: Devidas) Children's Oncology Group Statistics and Data Center Role: Lead Statistician on Renal Tumor and Soft Tissue Sarcoma Committees	7/1/14-2/28/19
Texas Department of Aging and Disability Services (PI: Shenkman) Evaluating Quality of Care for the Department of Aging and Disability Services Role: Co-Investigator	12/1/14- 11/30/15
NIH/NIDA R01-DA031017 (PI: Goodenow) Substance Use and Immunity in HIV+ Adolescents by Systems Biology Role: Co-Investigator	1/25/13- 6/30/15
NIH/NIDDK R01-DK072398 (PI: Gregory) Vitamin B-6 Effects on One-Carbon Metabolism	7/1/10- 6/30/15

Role: Co-Investigator

NIH/NIDCR R01-DE020832 (PI: Muller) 12/9/10-11/30/15
Multilevel and Longitudinal Study Sample Size Tools for Behavioral
Scientists
Role: Co-Investigator

NIH/NCATS (PI: Nelson) 7/1/08-3/31/15
University of Florida Clinical and Translational Science Award
Role: Biostatistician

Acordia Therapeutics 12/17/12 -1/13/14
Therapeutic Effect of Dalfampridine on Gait Incoordination in
spinocerebellar Ataxis
Role: Co-Investigator

NIH/NIA R21-AG044858 (PI: Delp) 9/30/13/ - 6/30/14
Ankle Dorsiflexion Splinting Enhances Endothelial Function of Aged
Leg Muscles
Role: Co-Investigator

Florida Department of Health Bankhead-Coley Cancer Research 9/29/12-2/28/13
Phase I/II Clinical Study of Oxi4503 in AML and MDS (PI: Cogle)
Role: Co-Investigator

UF VA Brain Rehabilitation and Research Center (PI: Patten) 10/01/11-6/30/12
Developing Evidence-based Parameter Selection for Locomotor Training
Post-Stroke
Role: Biostatistician (through IPA agreement)

NIH/NINDS R21-NS065098 (PI: Lewis) 6/1/09-5/31/11
Biochemical Markers in Adult Patients with Aneurysmal Subarachnoid
Hemorrhage Role: Co-investigator