YUE WANG

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EDUCATION

University of North Carolina at Chapel Hill, Chapel Hill   2014.08 - 2018.08
Ph.D. in Biostatistics
Department of Biostatistics

University of Science and Technology of China, Hefei   2010.09 - 2014.06
B.S. in Statistics
Department of Statistics and Finance

PROFESSIONAL EXPERIENCE

Senior Fellow   2019.09- Present
Department of Biostatistics, University of Washington
Supervisor: Dr. Ali Shojaie and Dr. Jing Ma

Postdoctoral Fellow   2018.09- 2019.08
Fred Hutchinson Cancer Research Center
Supervisor: Dr. Jing Ma and Dr. Ali Shojaie

Graduate Research Assistant   2016.01- 2018.08
Biostatistics Core, Lineberger Comprehensive Cancer center, UNC Hospitals

Graduate Research Assistant   2017.05- 2017.08
Department of Biostatistics, University of Texas MD Anderson Cancer Center
Supervisor: Dr. Hongtu Zhu

Graduate Research Assistant   2014.08- 2015.12
Department of Biostatistics, University of North Carolina at Chapel Hill
Supervisor: Dr. Hongtu Zhu and Dr. Joseph G. Ibrahim

TEACHING EXPERIENCE

Instructor
Department of Biostatistics, University of North Carolina at Chapel Hill

- 2018 BIOS Bootcamp (Summer 2018; Ph.D. preparation course): Real Analysis

Teaching Assistant
Department of Biostatistics, University of North Carolina at Chapel Hill

- BIOS 690 (Fall 2015; master level course): Special Topics in Statistics

- BIOS 600 (Fall 2016): Introduction to Biostatistics

- BIOS 779 (Fall 2017; advanced course for Ph.D. students): Bayesian Statistics

PUBLICATIONS

Statistical Methodology

1. Lu, Z. H., Khondker, Z., Ibrahim, J. G., **Wang, Y.**, Zhu, H. (2017). Bayesian longitudinal low-rank regression models for imaging genetic data from longitudinal studies. *NeuroImage*, 149, 305-322.

2. **Wang, Y.**, Ibrahim, J. G., Zhu, H. (2019+) Partial Least Squares Method for Functional Joint Models. *Under revision*; *Biometrics.*

3. **Wang, Y.**, Ibrahim, J. G., Zhu, H. (2019+). RAPLS: Residual-based Alternative Partial Least Squares for Functional Regression Models. *Submitted to JASA Theory and Methods*

4. **Wang, Y.**, Randolph, T. W., Shojaie, A., Ma, J. (2019+). The GMD-biplot and its application to microbiome studies. *Under revision; mSystems.*

5. **Wang, Y.**, Shojaie, A., Randolph, T. W., Ma, J. (2019+). Generalized Matrix Decomposition Regression. *Submitted to JASA Theory and Methods.*

6. **Wang, Y.**, Ma, J. , Shojaie, A. (2019+). Direct Estimation of Differences in High-dimensional Vector Autoregressive Models. *In preparation.*

Scientific Collaboration

1. Wang, K., Eblan, M. J., Deal, A. M., Lipner, M., Zagar, T. M., **Wang, Y.**, ... & Socinski, M. A. (2017). Cardiac toxicity after radiotherapy for stage III nonsmall-cell lung cancer: pooled analysis of dose-escalation trials delivering 70 to 90 Gy. *Journal of Clinical Oncology*, 35(13), 1387.

2. Czernuszewicz, T. J., Homeister, J. W., Caughey, M. C., **Wang, Y.**, Zhu, H., Huang, B. Y., ... & Ford, P. F. (2017). Performance of acoustic radiation force impulse ultrasound imaging for carotid plaque characterization with histologic validation. *Journal of vascular surgery*, 66(6), 1749-1757.

3. Lee, E., Giovanello, K. S., Saykin, A. J., Xie, F., Kong, D., **Wang, Y.**, ... & Alzheimer's Disease Neuroimaging Initiative. (2017). Single-nucleotide polymorphisms are associated with cognitive decline at Alzheimer's disease conversion within mild cognitive impairment patients. *Alzheimer's & Dementia: Diagnosis, Assessment Disease Monitoring*, 8, 86-95.

4. Wang, K., Pearlstein, K. A., Patchett, N. D., Deal, A. M., Mavroidis, P., Jensen, B. C., Lipner, M., Zagar, T. M., **Wang, Y.**, ... & Eblan, M. J. (2017). Heart dosimetric analysis of three types of cardiac toxicity in patients treated on dose-escalation trials for Stage III non-small-cell lung cancer. *Radiotherapy and Oncology*, 125(2), 293-300.

5. Williams, G. R., Deal, A. M., Lund, J. L., Chang, Y., Muss, H. B., Pergolotti, M., Guerard, E. J., Schachar, S. S., **Wang, Y.**, ... & Sanoff, H. K. (2018). PatientReported Comorbidity and Survival in Older Adults with Cancer. *The oncologist*, 23(4), 433-439.

6. Flentie, K., Gonzalez, C., Kocher, B., **Wang, Y.**, Zhu, H., Marasa, J., & Piwnica-Worms, D. (2018). Nucleoside Diphosphate Kinase-3 (NME3) Enhances TLR5-Induced NFB Activation. *Molecular Cancer Research*, 16(6), 986-999.

7. Zhao, B., Ibrahim, J. G., Li, Y., Li, T., **Wang, Y.**, Shan, Y., ... & Liao, H. (2018). Heritability of regional brain volumes in large-scale neuroimaging and genetic studies. *Cerebral Cortex*, 29(7), 2904-2914.

8. Moon, D. H., Chera, B. S., Deal, A. M., **Wang, Y.**, Muss, H. B., & VanderWalde, N. A. (2019). Clinician-observed and patient-reported toxicities and their association with poor tolerance to therapy in older patients with head and neck or lung cancer treated with curative radiotherapy. *Journal of geriatric oncology*, 10(1), 42-47.

9. Judy, G. D., Kaidar-Person, O., Deal, A., **Wang, Y.**, Migliardi, A., Long, J., ... & Marks, L. B. (2018). The persistent problem of local/regional failure after surgical intervention for early-stage lung cancer. *The Annals of thoracic surgery*, 106(2), 382-389.

PRESENTATIONS

1. Joint models of longitudinal and survival outcomes with high-dimensional neuroimaging data, ENAR, 2017, Washington DC

2. Partial least squares for functional regression models, LIDA, 2017, University of Connecticut (**Invited Session**)

3. RAPLS: Residual based alternative partial least squares method for functional models, ENAR, 2018, Atlanta (**Invited Session**)

4. Partial least squares for functional regression models, Biostatistics Seminar, 2018, Fred Hutchinson Cancer Research Center

5. The GMD-biplots and its application to microbiome data. ENAR 2019, Philadelphia.

6. Generalized Matrix Decomposition Regression. JSM 2019, Denver.

HONORS & AWARDS

- Outstanding Undergraduate Student Award, University of Science and Technology of China, 2011-2014.

- Travel Award, University of North Carolina at Chapel Hill, 2015-2017

PROFESSIONAL ACTIVITIES

Session Chair

Recent Advances in Dimension Reduction and Clustering. JSM, Denver, 2019.

Referee Service:

Referee for Computational Statistics and Data Analysis, Journal of the American Statistical Association.