

YUE WANG

Arizona State University

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EDUCATION

University of North Carolina at Chapel Hill, Chapel Hill Ph.D. in Biostatistics Department of Biostatistics	2014.08 - 2018.08
University of Science and Technology of China, Hefei B.S. in Statistics Department of Statistics and Finance	2010.09 - 2014.06

PROFESSIONAL EXPERIENCE

Assistant Professor of Statistics School of Mathematical and Natural Sciences, Arizona State University	2020.08- Present
Postdoctoral Fellow Department of Biostatistics, University of Washington Public Health Division, Fred Hutchinson Cancer Research Center Supervisor: Dr. Ali Shojaie and Dr. Jing Ma	2018.09- 2020.08
Graduate Research Assistant Biostatistics Core, Lineberger Comprehensive Cancer center, UNC Hospitals	2016.01- 2018.08
Graduate Research Assistant Department of Biostatistics, University of Texas MD Anderson Cancer Center Supervisor: Dr. Hongtu Zhu	2017.05- 2017.08
Graduate Research Assistant Department of Biostatistics, University of North Carolina at Chapel Hill Supervisor: Dr. Hongtu Zhu and Dr. Joseph G. Ibrahim	2014.08- 2015.12

TEACHING EXPERIENCE

Instructor

School of Mathematical and Natural Sciences, Arizona State University

- STP226 Elements of Statistics (2020 Fall)
- STP452 Multivariate Statistics (2021 Spring)

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.**, Randolph, T. W., Shojaie, A., Ma, J. (2019). The GMD-biplot and its application to microbiome studies. *mSystems*; 4(6). (This paper is published as the editor's pick.)
3. **Wang Y.**, Ibrahim J.G., Zhu H. (2020) Partial least squares for functional joint models with applications to the Alzheimers disease neuroimaging initiative study. *Biometrics*, 1-11.
4. **Wang, Y.**, Ibrahim, J. G., Zhu, H. (2019+). RAPLS: Residual-based Alternative Partial Least Squares for Functional Regression Models. *Submitted*.
5. **Wang, Y.**, Shojaie, A., Randolph, T. W., Ma, J. (2019+). Generalized Matrix Decomposition Regression. *Submitted*.

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.

10. Wang, K., Pearlstein, K. A., Moon, D. H., Mahbooba, Z. M., Deal, A. M., **Wang, Y.**, ... & Sheets, N. C. (2019). Assessment of risk of xerostomia after whole-brain radiation therapy and association with parotid dose. *JAMA oncology*, 5(2), 221-228.

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.
7. Statistical methods for supervised data integration. ASU MNS Seminar, 2020.
8. Generalized Matrix Decomposition Regression. Department of Statistics, University of Kentucky, 2020.
9. Estimation and inference of two-way structured regression. October Math Day Symposium, UNC Charlotte, 2020.

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 Biometrics, Computational Statistics and Data Analysis, Journal of the American Statistical Association, Science Advances, Transportation Research Part D: Transport and Environment.

Committee:

MNS Seminar Committee, Arizona State University.