

YAFEI WANG

CONTACT INFORMATION	Mathematical and Statistical Sciences University of Alberta 111 St., NW, T6G 1H7	(+1) 587-937-5988 yafei2@ualberta.ca
EDUCATION	College of Applied Sciences, Beijing University of Technology, Beijing, China Ph.D., Statistics , 2013-2019 <ul style="list-style-type: none">• Thesis Topic: <i>Estimation for Several Functional Models</i>• Advisor: Zhongzhan ZHANG, Ph.D School of Mathematics and Information Science, Weifang University, Weifang, China B.S., Statistics , 2009-2013	
RESEARCH INTERESTS	Complex and Structured Massive Data Analysis <ul style="list-style-type: none">• Functional data analysis Functional linear regression; Independence test; Model-based design; Applications involving functional objects, e.g. brain imaging data, DTI data• Robust statistics Varying coefficient model for functional response; Functional linear quantile regression Statistical Optimization in Data Science <ul style="list-style-type: none">• Operator splitting schemes• (Distributional) Reinforcement learning	
PROFESSIONAL EXPERIENCE	Postdoctoral Research Fellow Department of Mathematical and Statistical Sciences, University of Alberta <ul style="list-style-type: none">• Supervisor: Linglong KONG, Ph.D; Bei JIANG, Ph.D Visiting Ph.D. Student Department of Mathematical and Statistical Sciences, University of Alberta <ul style="list-style-type: none">• Advisor: Linglong KONG, Ph.D; Bei JIANG, Ph.D	Nov 2019 to current Oct 2017 to Oct 2018
TEACHING EXPERIENCE	Graduate Courses Taught <ul style="list-style-type: none">• STAT 580 Stochastic Processes	2020, Fall
PUBLISHED PAPERS	<ol style="list-style-type: none">1. Tingyu Lai, Zhongzhan Zhang and Yafei Wang (2021). A kernel-based measure for conditional mean dependence. <i>Computational Statistics & Data Analysis</i>, 160:Article 107246. DOI: 10.1016/j.csda.2021.1072462. Tingyu Lai, Zhongzhan Zhang, Yafei Wang and Linglong Kong (2020). Testing independence of functional variables by angle covariance. <i>Journal of Multivariate Analysis</i>, 182:Article 104711. DOI: 10.1016/j.jmva.2020.1047113. Tong Su, Yafei Wang, Yi Liu, William G. Branton, Eugene Asahchop, Christopher Power, Bei Jiang, Linglong Kong and Niansheng Tang (2020). Sparse multcategory generalized distance weighted discrimination in ultra-high dimensions. <i>Entropy</i>, 22(11):1-33. DOI: 10.3390/e221112574. Tingyu Lai, Zhongzhan Zhang and Yafei Wang (2020). Testing independence and goodness-of-fit jointly for functional linear models. <i>Journal of the Korean Statistical Society</i>, 1-23. DOI: 10.1007/s42952-020-00083-4	

5. **Yafei Wang**, Linglong Kong, Bei Jiang, Xingcai Zhou, Shimei Yu, Li Zhang and Giseon Heo (2019). Wavelet-based lasso in functional linear quantile regression. *Journal of Statistical Computation and Simulation*, **89(6)**: 1111–1130. DOI: 10.1080/00949655.2019.1583228
6. **Yafei Wang**, Tianfa Xie and Zhongzhan Zhang (2018). Partial functional linear models with ARCH errors. *Open Journal of Statistics*, **08(2)**:345–361. DOI: 10.4236/ojs.2018.82023
7. **Yafei Wang**, Jiang Du and Zhongzhan Zhang (2017). Partial functional linear model with dependent errors. *Acta Mathematicae Applicatae Sinica*, **40(1)**:49–65 (In Chinese). URL: http://123.57.41.99/jweb_yysxxb/EN/Y2017/V40/I1/49

PRESENTATIONS

Invited Talk

- Estimation of functional linear model with incomplete observations, *The 4th ICOSA-Canada Chapter Symposium—Advances and Innovations in Statistics and Data Science*, Queen’s University, Kingston, Ontario, Canada. Aug 9-11, 2019

Contributed Talk

- Estimation of functional linear model with incomplete observations, *The Fourth National Forum on Statistics of Postgraduates in Colleges and Universities*, Beijing, China. Nov 24, 2018
- M-estimators on varying coefficient model with functional response in reproducing kernel Hilbert space, *The 3rd National Forum for Doctoral Students in Statistics in 2018*, Guangzhou, China. Nov 2-4, 2018
- Partial functional linear models with ARCH errors, *The 11th International Student Conference on Advanced Science and Technology*, Kumamoto, Japan. Dec8-9, 2016
- Partial functional linear models with ARCH errors, *Guangdong Postgraduate Forum — Social Economic and Statistics Forum*, Guangzhou, China. Oct 22-23, 2016

Contributed Poster

- Detecting characteristics of TED talks predicting their popularity: A TED talks feature analysis, *Statistical Society of Canada*, Montreal, Canada. June 3-6, 2018
- Partial functional linear models with ARCH errors, *IMS-China International Conference on Statistics and Probability*, Guangxi, China. June 28-July 1, 2017

HONORS AND AWARDS

- Second Prize of Paper Award in the 3rd National Forum for Doctoral Students in Statistics, Guangzhou, China. 2018
- Science Graduate Scholarship, 6000 CNY. 2015–2016
- ICAST Speech and Host Certificate, Kumamoto, Japan. 2016
- Second Rank for Graduate Student Scholarship, Beijing University of Technology, Beijing, China. 2014
- Excellent Graduates in Weifang, Weifang University, Weifang, China. 2013
- National Encouragement Scholarship, Weifang University, Weifang, China. 2013
- Schools first scholarship, Weifang University, Weifang, China. 2012
- Merit student, Weifang University, Weifang, China. 2012
- National Encouragement Scholarship, Weifang University, Weifang, China. 2010
- Merit student, Weifang University, Weifang, China. 2010

ACADEMIC SERVICES

- Referee for *Canadian Journal of Statistics*, 2020 (two papers).
- Referee for *Journal of Statistical Computation and Simulation*, 2020 (two papers)
- Referee for *Computational Statistics and Data Analysis*, 2019 (one paper)
- Referee for *Journal of Business & Economic Statistics*, 2019 (one paper)

PRACTICES

- Volunteer for the Western North American Region of The International Biometric Society(WNAR), Edmonton, Canada. 2018
- The invited speaker of the graduate forum of Beijing, Tianjin and Hebei, Beijing, China. 2017
- The invited speaker of the Academic Salon from “Paper Writing” to “Academic Frontier” of “Scientific Spirit and Academic Norms” in Beijing University of Technology, Beijing, China. 2016