CURRICULUM VITAE
[Yingying Wei]

PERSONAL DATA

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                    The Chinese University of Hong Kong, Shatin, NT, Hong Kong
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EDUCATION

Ph.D.	Biostatistics	The Johns Hopkins University	2014
M.S.E	Computer Science	The Johns Hopkins University	2014
B.Sc.	Mathematics and Applied Mathematics	Tsinghua University, Beijing, China	2009

PROFESSIONAL EXPERIENCE

2020-present	Associate Professor Department of Statistics, The Chinese University of Hong Kong Chung Chi College, The Chinese University of Hong Kong
2014-2020	Assistant Professor Department of Statistics, The Chinese University of Hong Kong Chung Chi College, The Chinese University of Hong Kong
2013-2014	Statistical Consultant Department of Environmental Health Sciences, The Johns Hopkins University
2011-2014	Research Assistant The Johns Hopkins University School of Medicine and The Kennedy Krieger Research Institute
2011-2012	Statistical Consultant Department of Health Policy and Management, The Johns Hopkins University
2010-2013	Teaching Assistant Department of Biostatistics, The Johns Hopkins University
2010-2011	Research Assistant Division of Oncology Biostatistics and Bioinformatics, The Sidney Kimmel Comprehensive Cancer Center and Department of Otolaryngology-Head and Neck Surgery, The Johns Hopkins Medical Institutions
2009	Teaching Assistant Department of Mathematical Sciences, Tsinghua University, Beijing, China
2007-2009	Research Assistant Bioinformatics Division, National Laboratory for Information Science and Technology, Tsinghua University, Beijing, China

AWARDS AND HONORS

2019	W. J. Youden Award in Interlabotoray Testing	American Statistical Association
2017	Faculty Exemplary Teaching Award	Faculty of Science, The Chinese University of Hong Kong
2013	ENAR Distinguished Student Paper Award	The International Biometric Society
2013	The Margaret Merrell Award	The Johns Hopkins University
2012	The June B. Culley Award	The Johns Hopkins University
2012	First Place, Biostatistics Section of the Delta Omega Poster Competition	The Johns Hopkins University
2009	Excellent Graduate	Tsinghua University
2008	Meritorious Award for the Mathematical Contest in Modeling	SIAM, NSA, INFORMS
2008	Outstanding Academic Performance Scholarship	Tsinghua University
2007	Outstanding Academic Performance Scholarship	Tsinghua University
2006	National Scholarship	Ministry of Education of the People's Republic of China

LIST OF RESEARCH OUTPUTS OR CREATIVE WORKS

Publications

In the author list, **bold** indicates members of my lab; * represents equal contribution; # stands for the corresponding author.

Journal Paper

18. **Song FD**, **Chan GM, Wei YY[#]**. Flexible Experimental Designs for Valid Single-cell RNA-sequencing Experiments Allowing Batch Effects Correction, *Nature Communications*, 11: 3274
    This paper won the 2019 American Statistical Association Section on Statistics in Genomics and Genetics Distinguished Student Paper Award.

17. **Luo XY** and **Wei YY[#]** (2019) Batch Effects Correction with Unknown Subtypes, *Journal of the American Statistical Association*, 114 (526), 581-594
    This paper was awarded the 2019 W. J. Youden Award in Interlaboratory Testing from the American Statistical Association.

16. **Luo XY,** Yang C[#] and **Wei YY[#]** (2019) Detection of Cell-type-specific Risk-CpG Sites in Epigenome-wide Association Studies, *Nature Communications*, 10: 3113

15. **Dai ZW**, Wong H, Yu J, and **Wei YY[#]** (2019) Batch Effects Correction for Microbiome Data with Dirichlet-multinomial Regression, *Bioinformatics*, 35 (5), 807-814.

14. **Luo XY** and **Wei YY[#]** (2018) Nonparametric Bayesian Learning of Heterogeneous Dynamic Transcription Factor Networks, *Annals of Applied Statistics*, 12 (3), 1749-1772. This paper won the 2016 American Statistical Association Biometrics Section Travel Award.

13. Gaykalova DA, Zizkova V, Guo T, Tiscareno I, **Wei YY**, Vatapalli R, Hennessey PT, Ahn J, Danilova L, Khan Z, Bishop JA, Gutkind JS, Koch WM, Westra WH, Fertig EJ, Ochs MF, Califano JA (2017) Integrative Computational Analysis of Transcriptional and

Epigenetic Alterations Implicates DTX1 as a Putative Tumor Suppressor Gene in HNSCC, *Oncotarget.* 8(9): 15349–15363.

12. **Wei YY**[#] and Wu H[#] (2016) Measuring the Spatial Correlations of Protein Binding Sites. *Bioinformatics.* (32)12: 1766-1772.

11. **Wei YY**, Tenzen T, Ji HK[#] (2015) Joint Analysis of Differential Gene Expression in Multiple Studies using Correlation Motifs. *Biostatistics.* 16 (1) 31-46.

10. **Wei YY**[#](2015) Integrative Analyses of Cancer Data: A Review from a Statistical Perspective. *Cancer Informatic*s. 14 (S2):173-181.

9. Wamaitha SE, Del Vall Ignacio, Cho LT, **Wei YY**, Fogarty NM, Blakeley P, Sherwood R, Ji HK, Niakan KK[#] (2015) Gata6 Potently Initiates Reprograming of Pluripotent and Differentiated Cells to Extraembryonic Endoderm Stem Cells. *Genes & Development.* 29: 1239-1255.

8. Gaykalova DA, Vatapalli R, **Wei YY**,Tsai HL,Wang H, Zhang C, Hennessey PT, Guo T, Tan M, Li Rya, Ahn J, Khan Z, Westra WH, Justin AB, Zabli D, Koch WM, Khan T, Ochs MF, Califano JA[#] (2015) Outlier Analysis Defines Zinc Finger Gene Family DNA Methylation in Tumors and Saliva of Head and Neck Cancer Patients. *PLoS ONE.* 10(11): e0142148.

7. Considine M, Parker H, **Wei YY**, Xia X, Cope L, Ochs M, Fertig E[#] (2015) AGA: Interactive Pipeline for Reproducible Gene Expression and DNA Methylation Data Analyses. *F1000Research*, 4:28.

6. Ying M, Tilghman J*, **Wei YY***, Guerrero-Cazares H, Quinones-Hinojosa A, Ji H, Laterra J[#] (2014) Kruppel-like Factor-9 (KLF9) Inhibits Glioblastoma Stemness through Global Transcription Repression and Integrin α6 Inhibition. *Journal of Biological Chemistry*. 289 (47) 32742-32756.

5. **Wei YY**, Wu G, Ji HK[#] (2013) Global Mapping of Transcription Factor Binding Sites by Sequencing Chromatin States: a Perspective on Experimental Design, Data analysis, and Open Problems. *Statistics in Biosciences*. 5: 156-178.

4. Wang JY, Park JS, **Wei YY**, Rajurkar M, Cotton JL, Fan Q, Lewis BC, Ji HK, Mao JH[#] (2013) TRIB2 Acts Downstream of Wnt/TCF in Liver Cancer Cells to Regulate YAP and C/EBPα Function. *Molecular Cell*. 51: 211-225.

3. Ochs MF[#], Farrar JE, Considine M, **Wei YY**, Meschinchi S, Arcei RJ (2013) Outlier Analysis and Top Scoring Pair for Integrated Data Analysis and Biomarker Discovery. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*. 11 (3) 520-532.

2. **Wei YY***, Li X*, Wang Q, Ji HK[#] (2012) iASeq: Integrative Analysis of Allele-specificity of Protein-DNA Interactions in Multiple ChIP-seq Datasets. *BMC Genomics*. 13:681. **Highly accessed.**
This paper won the 2013 ENAR Distinguished Student Paper Award.

1. Li S[#], Zhang B, Jiang D, **Wei YY**, Zhang N (2010) Herb Network Construction and Co-module Analysis for Uncovering the Combination Rule of Traditional Chinese Herbal Formulae. *BMC Bioinformatic*s. 11(S11): S6.

Conference Paper

1. Ochs MF[#], Farrar JE, Considine M, **Wei YY**, Meschinchi S, Arcei RJ (2013) Outlier Gene Set Analysis Combined with Top Scoring Pair Provides Robust Biomarkers of Pathway Activity. *Pattern Recognition in Bioinformatics: Lecture Notes in Computer Science*. 7986: 47-58.

Book Chapters

2. **Wei YY**[#], Tenzen T, Ji HK (2016) Cormotif: An R Package for Joint Detecting Differential Gene Expression in Multiple Studies in *Computational Biology and Bioinformatics: Gene Regulation* edited by Ka-Chun Wong. 1st ed. pp.28-48. CRC Press, Taylor & Francis Group.

1. Ji HK[#], **Wei YY** (2015) Integrative Analysis of Multiple ChIP-X Data Sets Using Correlation Motifs. In *Integrating Omics Data* edited by George C. Tseng, Debashis Ghosh, Xianghong Jasmine Zhou. 1st ed. pp.110-135. Cambridge University Press.

SOFTWARE (Total: 58,000+ downloads as of July 2020):

1. BDMMAcorrect   https://bioconductor.org/packages/release/bioc/html/BDMMAcorrect.html
    An R/Bioconductor package for batch effects correction for microbiome data with Dirichlet-multinomial regression.
    2,300+ downloads since release as of July 2020

2. BUScorrect   https://bioconductor.org/packages/release/bioc/html/BUScorrect.html
    An R/Bioconductor package for batch effects correction with unknown subtypes.
    1,800+ downloads since release as of July 2020

3. ChIPCor   http://www.sta.cuhk.edu.hk/YWei/ChIPCor.html
    An R package to measure the spatial correlations of protein binding sites.

4. coGPS   https://bioconductor.org/packages/release/bioc/html/coGPS.html
    An R/Bioconductor package for gene set enrichment analysis based on statistics that detect outlier genes according to multiple genomic data types.
    16,900+ downloads since release as of July 2020

5. Cormotif   https://bioconductor.org/packages/release/bioc/html/Cormotif.html
    An R/Bioconductor package for jointly analyzing multiple gene expression datasets to simultaneously detect differentially expression genes and patterns.
    18,500+ downloads since release as of July 2020

6. HIREewas   https://bioconductor.org/packages/release/bioc/html/HIREewas.html
    An R/Bioconductor package for detecting cell-type-specific risk-CpG sites in epigenome-wide association studies.
    1,600+ downloads since release as of July 2020

7. iASeq   https://bioconductor.org/packages/release/bioc/html/iASeq.html
    An R/Bioconductor package for integrating multiple sequencing datasets for detecting allele-specific events.
    16,700+ downloads since release as of July 2020

RESEARCH GRANTS

External Competitive Grants

5. Principle Investigator
   Title: Fine-Scale Inference for Aggregate-Level DNA Methylation Data
   Reference number: GRF 14306020
   Granting agency: Research Grant Council of Hong Kong
   Fund duration: 01/01/2021-31/12/2022.

4. Principle Investigator
   Title: Statistical Methods for Estimating a Set of Phylogenetic Trees
   Reference number: GRF 14305319
   Granting agency: Research Grant Council of Hong Kong
   Fund duration: 01/01/2020-31/12/2022.

3. Principle Investigator
   Title: Bayesian Methods for Time-to-event Data on a Social Network
   Reference number: GRF 14305318
   Granting agency: Research Grant Council of Hong Kong
   Fund duration: 01/01/2019-31/12/2020.

2. Principle Investigator
   Title: Bayesian Graph-valued Regression
   Reference number: GRF 14306417
   Granting agency: Research Grant Council of Hong Kong
   Fund duration: 01/01/2018-31/12/2019.

1. Principle Investigator
   Title: Statistical Modeling for Heterogeneous Dynamic Transcription Factor Networks
   Reference number: ECS 24301416
   Granting agency: Research Grant Council of Hong Kong
   Fund duration: 01/01/2017-31/12/2018.

Internal Competitive Grants

1. Co-Investigator
   Title: Ownership of Innovation and Social Citizenship in Science Experiential Learning
   Reference number: Teaching Development and Language Enhancement Grant
   Granting agency: CUHK
   Fund duration: 01/01/2018-30/06/2019.

Non-Competitive Grants

2. Principle Investigator
   Title: A Hierarchical Model with Parallel Programming for Clustering Regulatory Elements Dynamics
   Reference number: One-off funding
   Granting agency: CUHK Research Committee
   Fund duration: 01/07/2016-30/06/2017.

1. Principle Investigator
   Title: Integrative Modeling of Open Chromatin and DNA Methylation Status Across Cell Lines
   Reference number: PS14429

INVITED PRESENTATIONS/ LECTURES

Invited Seminars at Research Institutes and Universities:

15. 29/06/2019, Shanghai Normal University

14. 09/05/2019, Innovation Center for Biomedical Informatics, Georgetown University

13. 20/04/2019, School of Mathematics & Statistics, Xi'an Jiaotong University

12. 04/04/2019, Department of Epidemiology and Biostatistics, UCSF

11. 29/03/2019, Department of Statistics, University of Georgia

10. 28/03/2019, Department of Biostatistics and Bioinformatics, Emory University

9. 19/06/2018, Department of Statistics, Guangzhou University

8. 17/05/2018, Division of Biostatistics and Bioinformatics, The Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University School of Medicine

7. 11/05/2018, Icahn School of Medicine at Mount Sinai, New York

6. 18/08/2017, Institute of Statistics, National Tsinghua University

5. 17/08/2017, Institute of Information Science, Academia Sinica

4. 29/07/2015, Department of Anatomical and Cellular Pathology, Prince of Wales Hospital

3. 23/07/2015, Centre for Genomic Sciences, The University of Hong Kong

2. 13/02/2014, Department of Statistics, The Chinese University of Hong Kong

1. 05/02/2014, Division of Biostatistics, University of Minnesota

Invited Presentations at Professional Meetings:

26. 05/08/2020, Faculty Research Day 2020, Faculty of Science, The Chinese University of Hong Kong

25. 26-30/12/2019, 2019 International Indian Statistical Association Conference (IISA), Mumbai

24. 20-22/12/2019, 2019 ICSA International Conference, Hangzhou

23. 14-15/12/2019, The 2019 Fudan International Conference on Data Science, Shanghai

22. 02-05/12/2019, The 11th Conference of the Asian Regional Section of the IASC (IASC-ARS 2019), Hong Kong

21. 27-29/06/2019, The 5th International Symposium on Data Driven Health and Medicine and 2019 OHDSI China Annual Symposium, Shanghai

20. 17-20/05/2019, Hangzhou International Conference on Frontiers of Data Science, Hangzhou

19. 19/11//2018, Joint Hong Kong-Japan Bioinformatics and Systems Biology Workshop, Tokyo

18. 07-09/11/2018, HKUST IAS Focused Program: New Technologies and Translational Applications of Genomics, Hong Kong

17. 16-18/07/2018, The 20th Anniversary of the Fundamental Science Class and the 10th Anniversary of the Tsinghua Xuetang Talent Program of Tsinghua University, Beijing

16. 19-21/06/2018, The 2nd International Conference on Econometrics and Statistics (EcoSta 2018), Hong Kong

15. 16-17/03/2018, International Workshop on Complex Big Data and Statistical Machine Learning, Shanghai

14. 02-03/11/2017, The 2017 Hangzhou International Statistical Symposium, Hangzhou

13. 02-05/07/2017, The 2017 ICSA China Conference with the Focus on Lifetime Data Science, Jilin

12. 28/06/2017-02/07/2017, 2017 IMS-China International Conference on Statistics and Probability, Nanning

11. 15-17/06/2017, The 1st International Conference on Econometrics and Statistics (EcoSta 2017), Hong Kong

10. 21/12/2016, The 10th ICSA International Conference, Shanghai

9. 03/07/016, The 4th IBS-China International Biostatistical Conference, Shanghai

8. 28/05/2016, The 9th China-R Conference, Beijing

7. 19/03/2016, Workshop on Statistical Theories, Methodologies and Applications in High Dimensional Data Analysis and Biomedicine, Hong Kong

6. 18/12/ 2015, The 9th Conference of the Asian Regional Section of the IASC (IASC-ARS 2015), Singapore

5. 17/10/2015, The 2015 Workshop on Statistics and Actuarial Science, Shanghai

4. 06/07/2015, Workshop on Data Science in Biomedicine, Hong Kong

3. 17/6/2015, The 2015 ICSA Applied Statistics Symposium and 13th Graybill Conference, Fort Collins, Colorado

2. 26/6/2015, Youth Statistician Forum: Prospect and Perspective in Statistics and its Application, Hong Kong

1. 20/4/2015, The 2015 Joint Statistical Workshop of the Chinese University of Hong Kong and Academia Sinica, Taipei

CONFERENCE ORGANIZATION

8.	Session Organizer and Session Chair	2020 Joint Statistical Meetings, August 2020
7.	Program Committee	International Conference on Intelligent Biology and Medicine (ICIBM 2020), August 2020
6.	Program Committee	APBC 2020 : The 18th Asia Pacific Bioinformatics Conference, August 2020
5.	Program Committee	GIW/ABACBS 2019: Joint 30th International Conference on Genome Informatics & Australian Bioinformatics and Computational Biology Society Annual Conference, Sydney, December 2019
4.	Session Organizer and Session Chair	Invited Session, 2018 ICSA China Conference with the Focus on Data Science, Qingdao, July 2018

3.	Session Chair	Invited Session, International Workshop on Complex Big Data and Statistical Machine Learning, Shanghai, March 2018
2.	Session Organizer and Session Chair	Invited Session, The 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting, Hong Kong, June 2016
1.	Local Organizing Committee Member	The 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting, Hong Kong, June 2016

POSTGRADUATE STUDENTS

PhD Students

1. Luo Xiangyu   Ph.D. in Statistics (2014-2018)
   Awardee of the 2016 American Statistical Association Biometrics Section Travel Award
   First Position: Tenure Track Assistant Professor at Renmin University of China

2. Shi Mai   Ph.D. in Biomedical Sciences (2014-2018).
             Primary Advisor: Prof. Tsui Kwok Wing Stephen
   First Position: Postdoc at School of Biomedical Sciences, The Chinese University of Hong Kong

3. Song Fangda   Ph.D. in Statistics (2016-present)
   Awardee of the 2019 American Statistical Association Section on Statistics in Genomics and Genetics Distinguished Student Paper Award

MPhil Student

1. Yuen Wing Yan   MPhil. in Statistics (2016-2018)
   First Position: Research Assistant at Prince of Wales Hospital
   Current Position: Ph.D. student majoring in Mathematical Statistics, Biostatistics and Bioinformatics Concentration, at the University of Maryland, College Park with Dean's Fellowship.

2. Ng Ming Hin   MPhil. in Statistics (2019-present)

3. Lee Cheuk Lam   MPhil. in Statistics (2020-present)

Thesis Assessment Committee:

1. Ling Hok Kan   MPhil. in Risk Management Science (graduated in 2015)
   Member of Thesis Assessment Committee

2. Lai Yingying   Ph.D. in Statistics (graduated in 2016)
   Chair of Thesis Assessment Committee

3. Kang Kai   MPhil. in Risk Management Science (graduated in 2017)
   Member of Thesis Assessment Committee

4. Feng Xiangnan   Ph.D. in Statistics (graduated in 2017)
   Member of Thesis Assessment Committee

5. Zeng Jia   MPhil. in Risk Management Science (graduated in 2018)
   Chair of Thesis Assessment Committee

6. Kwok Chin Kiu   MPhil. in Statistics (graduated in 2018)
   Member of Thesis Assessment Committee

   Wang Chaojie   Ph.D. in Statistics (graduated in 2018)

7. Member of Thesis Assessment Committee

8. Ouyang Ming   Ph.D. in Statistics (graduated in 2018)
Member of Thesis Assessment Committee

9. Luo Xiangyu   Ph.D. in Statistics (graduated in 2018)
Thesis Supervisor and Member of Thesis Assessment Committee

10. Chung Ka Pui   MPhil.in Statistics (graduated in 2019)
Chair of Thesis Assessment Committee

11. Lee Sze Ming   MPhil. in Risk Management Science (graduated in 2019)
Chair of Thesis Assessment Committee

12. Wang Xiaoqing   Ph.D. in Statistics (graduated in 2019)
Member of Thesis Assessment Committee

13. Chan Chun Ho   MPhil. in Statistics (graduated in 2019)
Member of Thesis Assessment Committee

14. Xia Xiaoxuan   Ph.D. in Biostatistics (graduated in 2020)
Member of Thesis Assessment Committee

15. Song Fangda   Ph.D. in Statistics (graduated in 2020)
Thesis Supervisor and Member of Thesis Assessment Committee

16. Lin Yuhang   MPhil. in Statistics (graduated in 2020)
Member of Thesis Assessment Committee

17. Ng Yi Cheong   MPhil. in Statistics (graduated in 2020)
Member of Thesis Assessment Committee

18. Chan Wai Lun   Ph.D. in Computer Science (on-going)
Member of Thesis Assessment Committee

Classroom Teaching:

Graduate Course

2020	Fall	STAT5050	Advanced Statistical Computing
2019	Fall	STAT5050	Advanced Statistical Computing
2018	Fall	STAT5050	Advanced Statistical Computing
2017	Fall	STAT5050	Advanced Statistical Computing
2016	Fall	STAT5050	Advanced Statistical Computing
2015	Fall	STAT5050	Advanced Statistical Computing (new course)
2014	Fall	STAT5050	Seminar

Undergraduate Course

2020	Spring	STAT3006	Statistical Computing
2019	Spring	STAT3006	Statistical Computing
2018	Fall	GECC4130	Senior Seminar
2018	Spring	STAT3006	Statistical Computing
2017	Fall	STAT4001	Data Mining and Statistical Learning (new course)
2017	Spring	STAT3006	Statistical Computing (new course)
2016	Fall	GECC4130	Senior Seminar
2016	Spring	STAT2102	Basic Statistical Concepts and Methods II
2015	Fall	STAT3011	Workshop on Data Analysis and Statistical Computing
2015	Spring	STAT2102	Basic Statistical Concepts and Methods II

INTERNAL SERVICE

Department-level

Curriculum Committee	Chair, 2019-present Member, 2014-2019
Graduate Studies Panel	Division Head, 2020-present Member, 2016-2020
Statistical Consultation Service Unit	Director, 2019-present Member, 2014-2019
Statistical Laboratory Management Committee	Chair, 2018-present Member, 2014-2018
Mainland Liaison and Outreach Committee	Chair, 2018-2020 Member, 2014-2018
Executive Committee	Member, 2020-present Member, 2016-2017
Seminar and Colloquium Committee	Chair, 2016-2017 Member, 2015-2016
Statistics Impact Case Centre Committee	Member, 2019-present
Public Relations Committee	Member, 2020-present
The Summer Internship Programme	Interviewer, 2016-2019

Faculty-level

Committee on Science, Technology And Research Stream	Member, 2018-2019
Faculty Student Exchange Programme Committee	Member, 2016-2020
Interview of JUPAS applicants for Science Programme	Interviewer, 2016

College-level

Yu-Luan Shih & Academic Creativity Awards Sub-Committee	Member, 2017-2020
Chung Chi English Table	Teacher, 2016

EXTERNAL SERVICE

External Examiner	University of Hong Kong, 07/2020/-08/2020
External Examiner	University of Hong Kong, 04/2017/-08/2017
Statistical Consultant	ParaDM, 03/2016-07/2016

PROFESSIONAL SOCIETIES

Membership	American Statistical Association International Chinese Statistical Association Institute of Mathematical Statistics International Society for Computational Biology

PROFESSIONAL SOCIETY ACTIVITIES

Secretary	The American Statistical Association Section on Statistics in Genomics and Genetics, 2019-present
Newsletter Editor	The American Statistical Association Section on Statistics in Genomics and Genetics, 2016-2019

EDITORSHIP

Associate Editor	Journal of Computational and Graphical Statistics, 2019-present
Guest Editor	Special Issue of Statistics in Biosciences, 2019-present
Referee for	(1) Annals of Applied Statistics, (2) Bayesian Analysis, (3) Biometrics, (4) Biostatistics, (5) BMC Bioinformatics, (6) Computational Biology and Chemistry, (7) IEEE/ACM Transactions on Computational Biology and Bioinformatics, (8) IISE Transactions, (9) Genomics, Proteomics & Bioinformatics, (10) the Journal of American Statistical Association, (11) the Journal of Applied Statistics, (12) the Journal of Computational and Graphical Statistics, (13) the Journal of Nonparametric Statistics, (14) the Journal of Theoretical Biology, (15) PLOS ONE, (16) Scientific Reports, (17) Statistical Applications in Genetics and Molecular Biology, (18) Statistics in Biosciences, (19) Statistics in Medicine