

Shixiang Wang

王诗翔

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Research summary

Aims—to develop and evaluate design patterns that help people self-regulate their use of smartphones and laptops.

Methods—controlled studies, user surveys, interviews, co-design workshops, web scraping, behaviour logging.

I am passionate about open and transparent research. Since 2018, I have shared materials, analysis scripts, and data for all my first-authored work, and written my papers as reproducible documents in R Markdown¹.

Research positions

2021 — present

Postdoctoral Researcher, Experiment Research Department, Sun Yat-sen University Cancer Center²
Supervisor: Rui-Hua Xu³

Education

2016 — 2021

PhD in Cancer Biology, ShanghaiTech University & Shanghai Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences
Supervisor: Xue-Song Liu⁴

2012 — 2016

B.E. in Biomedical Engineering, University of Electronic Science and Technology of China
Supervisor: Yang Xia

Major grants and funding

2022 — 2023

General Project, China Postdoctoral Science Foundation⁵ (¥ 80k), Developing new method for ecDNA identification and exploring its biomarker potential

Awards & honours

2021

2021 Outstanding Doctoral Student Award of Shanghai, ShanghaiTech University

2020

National scholarship for doctoral students, ShanghaiTech University
ShanghaiTech University Class A Postgraduate Academic Scholarship, ShanghaiTech University

¹ Last updated: January, 2023

Publications

Journal articles (fully reviewed)

- 2022 J16 **Hiplot: a comprehensive and easy-to-use web service for boosting publication-ready biomedical data visualization**
J. Li, B. Miao, S. Wang, W. Dong, H. Xu, C. Si, W. Wang, S. Duan, J. Lou, Z. Bao, H. Zeng, Z. Yang, W. Cheng, F. Zhao, J. Zeng, X. Liu, R. Wu, Y. Shen, Z. Chen, S. Chen, M. Wang, H. Consortium
Briefings in Bioinformatics
- J15 **Deciphering clonal dynamics and metastatic routines in a rare patient of synchronous triple-primary tumors and multiple metastases with MPTEvol**
Q. Chen, Q. Wu, Y. Rong, S. Wang, Z. Zuo, L. Bai, B. Zhang, S. Yuan, Q. Zhao
Briefings in Bioinformatics
- J14 **Quantification of neoantigen-mediated immunoediting in cancer evolution**
T. Wu, G. Wang, X. Wang, S. Wang, X. Zhao, C. Wu, W. Ning, Z. Tao, F. Chen, X. Liu
Cancer Research
- J13 **UCSCXenaShiny: an R/CRAN package for interactive analysis of UCSC Xena data**
S. Wang, Y. Xiong, L. Zhao, K. Gu, Y. Li, F. Zhao, J. Li, M. Wang, H. Wang, Z. Tao, T. Wu, Y. Zheng, X. Li, X. Liu
Bioinformatics
- 2021 J12 **Ggct (γ glutamyl cyclotransferase) plays an important role in erythrocyte antioxidant defense and red blood cell survival**
Z. He, X. Sun, S. Wang, D. Bai, X. Zhao, Y. Han, P. Hao, X. Liu
British Journal of Haematology
- J11 **Copy number signature analysis tool and its application in prostate cancer reveals distinct mutational processes and clinical outcomes**
S. Wang, H. Li, M. Song, Z. Tao, T. Wu, Z. He, X. Zhao, K. Wu, X. Liu
PLoS Genetics
- J10 **Pan-cancer noncoding genomic analysis identifies functional CDC20 promoter mutation hotspots**
Z. He, T. Wu, S. Wang, J. Zhang, X. Sun, Z. Tao, X. Zhao, H. Li, K. Wu, X. Liu
iScience
- J09 **Association of CSMD1 with Tumor Mutation Burden and Other Clinical Outcomes in Gastric Cancer**
X. Wang, S. Wang, Y. Han, M. Xu, P. Li, M. Ke, Z. Teng, P. Huang, Z. Diao, Y. Yan, Q. Meng, Y. Kuang, W. Zheng, H. Liu, X. Liu, B. Jia
International Journal of General Medicine
- 2020 J08 **Sigflow: an automated and comprehensive pipeline for cancer genome mutational signature analysis**
S. Wang, Z. Tao, T. Wu, X. Liu
Bioinformatics

2019	J07	Can tumor mutational burden determine the most effective treatment for lung cancer patients? S. Wang, Z. He, X. Wang, H. Li, T. Wu, X. Sun, K. Wu, X. Liu Lung Cancer Management
	J06	Antigen presentation and tumor immunogenicity in cancer immunotherapy response prediction S. Wang, Z. He, X. Wang, H. Li, X. Liu eLife
	J05	The predictive power of tumor mutational burden in lung cancer immunotherapy response is influenced by patients' sex S. Wang, J. Zhang, Z. He, K. Wu, X. Liu International Journal of Cancer
	J04	Ras downstream effector GGCT alleviates oncogenic stress Z. He, S. Wang, Y. Shao, J. Zhang, X. Wu, Y. Chen, J. Hu, F. Zhang, X. Liu iScience
	J03	Sex Differences in Cancer Immunotherapy Efficacy, Biomarkers, and Therapeutic Strategy S. Wang, L. An Cowley, X. Liu Molecules
	J02	The UCSCXenaTools R package: a toolkit for accessing genomics data from UCSC Xena platform, from cancer multi-omics to single-cell RNA-seq S. Wang, X. Liu Journal of Open Source Software
2018	J01	APOBEC3B and APOBEC mutational signature as potential predictive markers for immunotherapy response in non-small cell lung cancer S. Wang, M. Jia, Z. He, X. Liu Oncogene

Preprints (not reviewed)

2022	P3	Onlinemeta: A Web Server For Meta-Analysis Based On R-shiny Y. Yi, A. Lin, C. Zhou, J. Zhang, S. Wang, P. Luo bioRxiv
	P4	The repertoire of copy number alteration signatures in human cancer Z. Tao, S. Wang, C. Wu, T. Wu, X. Zhao, W. Ning, G. Wang, J. Wang, J. Chen, K. Diao, F. Chen, X. Liu bioRxiv
2021	P2	ezcox: An R/CRAN Package for Cox Model Batch Processing and Visualization S. Wang, X. Liu, J. Li, Q. Zhao arXiv
2020	P1	Revisiting neoantigen depletion signal in the untreated cancer genome S. Wang, X. Wang, T. Wu, Z. He, H. Li, X. Sun, X. Liu bioRxiv

Talks

2020 T1 **BioC Asia 2020**⁶, Online
Sigflow: an automated and comprehensive pipeline for cancer genome mutational signature analysis⁷

Poster presentations

2020 P1 **BioC Asia 2020**⁸
Sigflow: an automated and comprehensive pipeline for cancer genome mutational signature analysis⁹

2019 P2 **ShanghaiTech University, BioForum 2019**, Shanghai, China
Antigen presentation and tumor immunogenicity in cancer immunotherapy response prediction

Teaching experience

2019 **Teaching assistant, Cancer Biology**, ShanghaiTech University
NA

Service

2016 — present **Reviewer** ACM Transactions on Computer-Human Interaction (TOCHI)¹⁰, ACM CHI Conference¹¹, Computer-Supported Cooperative Work and Social Computing¹², International Journal of Human-Computer Studies¹³

Links

1. <https://rmarkdown.rstudio.com>[↔]
2. <http://english.sysucc.org.cn/>[↔]
3. http://english.sysucc.org.cn/info_19.aspx?itemid=154[↔]
4. https://slst.shanghaitech.edu.cn/lxs_en/main.htm[↔]
5. <https://jj.chinapostdoctor.org.cn/website/index.html>[↔]
6. <https://biocasia2020.bioconductor.org/>[↔]
7. <https://www.youtube.com/watch?v=nzAxPDTznm4>[↔]
8. <https://biocasia2020.bioconductor.org/>[↔]
9. https://f1000research.com/posters/9_1217
10. <http://tochi.acm.org/>[↔]
11. <https://sigchi.org/>[↔]
12. <http://cscw.acm.org/2019/>[↔]
13. https://www.journals.elsevier.com/international_journal_of_human_computer_studies