

Jiachen Wang

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EDUCATION

- Sept 2018 **Ph.D. candidate in Computer Science and Technology**
-Present **Zhejiang University**, Hangzhou, China
- Supervisor: Prof. Yingcai Wu
 - Research Interest: knowledge discovery and visual analytics of sports data
- Sept 2014 **B.E. in Digital Media Technology**
-July 2018 **Zhejiang University**, Hangzhou, China
- Supervisor: Prof. Yingcai Wu
 - Thesis: iSSVis: Interactive Visualization of Stroke Sequences in Table Tennis

PUBLICATION

Table Tennis Analysis

- [1] **Tac-Valuer: Knowledge-based Stroke Evaluation in Table Tennis**
Jiachen Wang, Dazhen Deng, Xiao Xie, Xinhuan Shu, Yu-Xuan Huang, Le-Wen Cai, Hui Zhang, Min-Ling Zhang, Zhi-Hua Zhou, Yingcai Wu
The ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2021
- [2] **Tac-Miner: Visual Tactic Mining for Multiple Table Tennis Matches**
Jiachen Wang, Jiang Wu, Anqi Cao, Zheng Zhou, Hui Zhang, Yingcai Wu
IEEE Transactions on Visualization and Computer Graphics, IEEE Pacific Visualization 2021
- [3] **Tac-Simur: Tactic-based Simulative Visual Analytics of Table Tennis**
Jiachen Wang, Kejian Zhao, Dazhen Deng, Anqi Cao, Xiao Xie, Zheng Zhou, Hui Zhang, and Yingcai Wu
IEEE Transactions on Visualization and Computer Graphics, IEEE VAST 2019
- [4] **SimuExplorer: Visual Exploration of Game Simulation in Table Tennis**
Ji Lan, Zheng Zhou, **Jiachen Wang**, Hui Zhang, Xiao Xie, Yingcai Wu.
IEEE Transactions on Visualization and Computer Graphics, 2021
- [5] **EventAnchor: Reducing Human Interactions in Event Annotation of Racket Sports Videos**
Dazhen Deng, Jiang Wu, **Jiachen Wang**, Yihong Wu, Xiao Xie, Zheng Zhou, Hui Zhang, Xiaolong Zhang, and Yingcai Wu
The ACM CHI Conference on Human Factors in Computing Systems, 2021
- [6] **iTTVivs: Interactive Visualization of Table Tennis Data**
Yingcai Wu, Ji Lan, Xinhuan Shu, Chengyang Ji, Kejian Zhao, **Jiachen Wang**, and Hui Zhang
IEEE Transactions on Visualization and Computer Graphics, IEEE InfoVis 2017

Soccer Analysis

[7] **PassVizor: Toward Better Understanding of the Dynamics of Soccer Passes**

Xiao Xie, **Jiachen Wang**, Hongye Liang, Dazhen Deng, Shoubin Cheng, Hui Zhang, Wei Chen, and Yingcai Wu

IEEE Transactions on Visualization and Computer Graphics, IEEE VAST 2020

[8] **ForVizor: Visualizing Spatio-Temporal Team Formations in Soccer**

Yingcai Wu, Xiao Xie, **Jiachen Wang**, Dazhen Deng, Hongye Liang, Hui Zhang, Shoubin Cheng, and Wei Chen

IEEE Transactions on Visualization and Computer Graphics, IEEE VAST 2018

Others

[9] **Interactive Visual Exploration of Longitudinal Historical Career Mobility Data**

Yifang Wang, Hongye Liang, Xinhuan Shu, **Jiachen Wang**, Ke Xu, Zikun Deng, Cameron Campbell, Bijia Chen, Yingcai Wu, and Huamin Qu

IEEE Transactions on Visualization and Computer Graphics, 2021

[10] **What makes a scatterplot hard to comprehend: data size and pattern salience matter**

Jiachen Wang, Xiwen Cai, Jiajie Su, Yu Liao, Yingcai Wu

Journal of Visualization, ChinaVis 2021

PROJECTS

Collaboration with the Chinese Table Tennis Association

Mar 2019 **Construction of the Table Tennis Data Platform**

-Present

- Collected and iterated the requirements of the Chinese National Table Tennis Team.
- Designed and developed the data collection^[5], tactic mining^[2], match simulation^[3], and performance evaluation^[1] methods for table tennis.
- Investigated IoT+VA methods for table tennis training (in progress).

May 2021 **Preparation for the Tokyo 2020 Olympics**

-Sept 2021

- Provided data service for the Chinese National Table Tennis Team to prepare for the Tokyo 2020 Olympics.
- The team won 4 gold and 3 silver medals. The collaboration was reported by CCTV (<https://news.cctv.com/2021/08/11/ARTIr8tJM4nALew9sT4pP9o9210811.shtml>)

Collaboration with the Chinese Basketball Association

Oct 2021 **Construction of the Basketball Visual Analytics System**

-Present

- Collected and iterated the requirements of the Chinese Basketball Association.
- Designed and developed a system to visualize the data of the register players, coaches, referees, clubs, and matches.

AWARDS

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| 2021 | <ul style="list-style-type: none">• The 1st prize in the Humanities and Social Sciences Award for outstanding achievement of Zhejiang University (for Tac-Miner^[2])• National Scholarship• Award of Honor for Graduate of Zhejiang University• Graduate of Merit of Zhejiang University• IEEE PacificVis 2021 Honorable Mention Award (for Tac-Miner^[2]) |
| 2019 | <ul style="list-style-type: none">• National Scholarship• Award of Honor for Graduate of Zhejiang University• Graduate of Merit of Zhejiang University |
| 2016 | <ul style="list-style-type: none">• Academic Star of Department of Computer Science and Technology |
| 2015 | <ul style="list-style-type: none">• Outstanding Student Leader of Zhejiang University• Second-Class Scholarship for Outstanding Students of Zhejiang University |

SERVICE

- | | |
|--------------------|---|
| Reviewer | <ul style="list-style-type: none">• IEEE VIS Conference, 2020• ACM Conference on Human Factors in Computing Systems (CHI), 2020• EuroVis 2021• IEEE VIS Conference, 2021• IEEE VIS Conference, 2022 |
| Teaching Assistant | <ul style="list-style-type: none">• Information Visualization, Zhejiang University, 2019• Cross Media Data Visualization, Zhejiang University, 2019• History of Computer Thoughts, Zhejiang University, 2020 |