# Xiaoru Yuan

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| Position: | Associate Professor |
| Faculty: | School of Intelligence Science and Technology, Peking University |
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**Teaching and Research Areas:**

Visualization, Visual Analytics, Computer-Human Interaction, Digital Humanity

## Academic Qualifications

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| 2001 - 2006 | Ph. D / Computer Science / University of Minnesota |
| 1993 - 1998 | Bachelor / Chemistry/Law / Peking University |

## Teaching Experiences

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| 2017 - Present | Professor (Research) / SIST / University |
| 2008 - 2017 | Professor (Research) / School of EECS / University (Tenured Since 2014) |

## Representative Publications

Journal Articles:

[1] Jincheng Li, Chufan Lai, Hai Zhang, and Xiaoru Yuan, "PM-Vis: A Visual Analytics System for Tracing and Analyzing the Evolution of Pottery Motifs". IEEE Transactions on Visualization and Computer Graphics, 2024. (IEEE PacificVis'24 TVCG track).

[2] Yuhan Guo, Yuchu Luo, Keer Lu, Linfang Li, Haizheng Yang, and Xiaoru Yuan. "LiberRoad: Probing into the Journey of Chinese Classics through Visual Analytics". IEEE Transactions on Visualization and Computer Graphics, 2024. (IEEE VIS'23).

[3] Yu Zhang, Ruike Jiang, Liwenhan Xie, Yuheng Zhao, Can Liu, Tianhong Ding, Siming Chen, and Xiaoru Yuan. "OldVisOnline: Curating a Dataset of Historical Visualizations". IEEE Transactions on Visualization and Computer Graphics, 2024. (IEEE VIS'23).

[4] Can Liu, Yuhan Guo, and Xiaoru Yuan. "AutoTitle: An Interactive Title Generator for Visualizations". IEEE Transactions on Visualization and Computer Graphics. Early Access.

[5] Jincheng Li, Chufan Lai, Youfen Wang, Ali Luo, and Xiaoru Yuan. "SpectrumVA: Visual Analysis of Astronomical Spectra for Facilitating Classification Inspection". IEEE Transactions on Visualization and Computer Graphics. Early Access.

[6] Sihang Li, Jiacheng Yu, Mingxuan Li, Le Liu, Xiaolong (Luke) Zhang, and Xiaoru Yuan. "A Framework for Multiclass Contour Visualization". IEEE Transactions on Visualization and Computer Graphics, 29(1):353-362, 2023. (IEEE VIS'22).

Conference Proceedings:

[1] Yuhan Guo, Qin Han, Yuke Lou, Yiming Wang, Can Liu, and Xiaoru Yuan. "Edit-History Vis: An Interactive Visual Exploration and Analysis on Wikipedia Edit History". In Proceedings of IEEE Pacific Visualization Symposium (PacificVis'23), pages 157-166, Seoul, Korea, April 18-21, 2023.

[2] Shaocong Tan, Chufan Lai, Xiaolong (Luke) Zhang, and Xiaoru Yuan. "An Empirical Guide for Visualization Consistency in Multiple Coordinated Views". In Proceedings of IEEE Pacific Visualization Symposium (PacificVis'23), pages 31-40, Seoul, Korea, April 18-21, 2023.

Exhibitions

2023/08-10 Journey of Chinese Classics Visualization, Oriental Wisdom - Contemporary Art Themed on Chinese Traditional Culture, Zhejiang Art Museum

2022/8/11 - 10/11 Migration Map of the Grand Canal of China, Contemporary Art Themed on Grand Canal of China, Zhejiang Art Museum

2017/7/17-19 Beijing Pulse/Beijing International Airport Flight Trajectory Visualization, ChinaVis 2017 Art Program, Qingdao

2012/9/28 - 10/14 Beijing Traffic Visualization, Beijing Design Week, Smart City Information Art Exhibition, Beijing

2013/9/26 -10/13 Beijing Traffic Jam Map, Beijing Design Week, Smart City Information Art Exhibition, Beijing

## Research Grants/Projects

2023 - 2026    Visualization Design Space Exploration Driven by Large Sample Collections. NSFC

2019 - 2022    New Visualizaiton Paradigm Power by Machine Learning, NSFC

## Academic and Professional Membership

2023 – IEEE VIS Steering Committee Member

2023 – IEEE PacificVis Steering Committee Member

2017 – CSIG Board Member of Directors

2017 – CSIG Chair of Visualization and Visual Analytics Technical Committee

2014 – ChinaVis Steering Committee Chair

## Professional Qualifications and Awards

2023 China DH Conference Best Design Award

2022 Award for popularization of science, CSIG

2022 ChinaVis Visualization Contest Chinese Classics Track, Second Prize

2018 Okawa Research Grant, Okawa Foundation, Japan

2018 Excellent Doctoral Dissertation Award (Supervisor), BSIG