

# Leni YANG

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## EXPERIENCE

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The Hong Kong University of Science and Technology, VisLab	2022/11–Now
PostDoc Researcher, Supervised by Prof. Huamin Qu	Hong Kong, China
The Hong Kong University of Science and Technology, VisLab	2018/09–2022/09
PhD in Computer Science and Engineering, Supervised by Prof. Huamin Qu	Hong Kong, China
Tongji University, iDVX Lab	2020/12–2021/04
Research Visiting Student, Supervised by Prof. Nan Cao	Shanghai, China
University of Electronic Science and Technology of China	2014/09–2018/06
B.S. in Management Information System	Chengdu, China

## PUBLICATIONS

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- **From Reader to Experienter: Design and Evaluation of an Interactive VR Story for Promoting the Situation Awareness of Public Health Threats**  
Qian Zhu, Linping Yuan, Zian Xu, **Leni Yang**, Meng Xia, Zhuo Wang, Hai-Ning Liang, Xiaojuan Ma.  
*International Journal of Human-Computer Studies*, doi: <https://doi.org/10.1016/j.ijhcs.2023.103137>
- **Landslide Visualization Situated on Tangible Terrain Models**  
Haobo Li, Kentaro Takahira, Kam Kwai Wong, **Leni Yang**, Wai Tong, Huamin Qu  
*IEEE VIS 2023 Posters*
- **InkSight: Leveraging Sketch Interaction for Documenting Chart Findings in Computational Notebooks**  
Yanna Lin, Haotian Li, Aoyu Wu, **Leni Yang**, Huamin Qu  
*IEEE VIS 2023*
- **Why Change My Design: Explaining Poorly Constructed Visualization Designs with Explorable Explanations**  
Leo Yu-Ho Lo, Yi-Fan Cao, **Leni Yang**, Huamin Qu  
*IEEE VIS 2023*
- **Is It the End? Guidelines for Cinematic Endings in Data Videos**  
Xian Xu, Aoyu Wu, **Leni Yang**, Zheng Wei, Rong Huang, David Yip, Huamin Qu  
*In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, doi: <https://doi.org/10.1145/3544548.3580701>, 2023
- **Understanding 3D Data Videos: From Screens to Virtual Reality**  
**Leni Yang**, Aoyu Wu, Wai Tong, Xian Xu, Zheng Wei, Huamin Qu  
*In Proceedings of the IEEE Pacific Visualization Symposium*, doi: [10.1109/PacificVis56936.2023.00029](https://doi.org/10.1109/PacificVis56936.2023.00029), 2023
- **From Wow to Why: Guidelines for Creating the Opening of a Data Video with Cinematic Styles**  
Xian Xu, **Leni Yang**, David Yip, Mingming Fan, Zheng Wei, Huamin Qu  
*In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, doi: <https://doi.org/10.1145/3491102.3501896>, 2022
- **Explaining with Examples: Lessons Learned from Crowdsourced Introductory Description of Information Visualizations**  
**Leni Yang**, Cindy Xiong, Jason K. Wong, Aoyu Wu, Huamin Qu  
*IEEE Transactions on Visualization and Computer Graphics*, doi: [10.1109/TVCG.2021.3128157](https://doi.org/10.1109/TVCG.2021.3128157), 2021.
- **A Design Space for Applying the Freytag's Pyramid Structure to Data Stories**  
**Leni Yang**, Xian Xu, XingYu Lan, Ziyang Liu, Shunan Guo, Yang Shi, Huamin Qu, Nan Cao  
*IEEE Transactions on Visualization and Computer Graphics (IEEE VIS 2021)*, doi: [10.1109/TVCG.2021.3114774](https://doi.org/10.1109/TVCG.2021.3114774), 2021.
- **Clouddet: Interactive Visual Analysis of Anomalous Performances in Cloud Computing Systems**  
Ke Xu, Yun Wang, **Leni Yang**, Yifang Wang, Bo Qiao, Si Qin, Yong Xu, Haidong Zhang, Huamin Qu  
*IEEE Transactions on Visualization and Computer Graphics (IEEE VIS 2019)*, doi: [10.1109/TVCG.2019.2934](https://doi.org/10.1109/TVCG.2019.2934), 2019.

## HONORS & AWARDS

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- |  |                  |
|--|------------------|
| > Innovation and Technology Fund (ITF) Research Talend Hub for Postdoctoral Fellowship                               | 2022             |
| > Research Travel Grant  | 2022, 2023       |
| > Research & Development Award, 19th Asia Pacific Information and Communications Technology Alliance (APICTA) Awards | 2019             |
| > Gold Award, Student Innovation, Hong Kong ICT Awards (HKICT)   | 2019             |
| > Outstanding Graduates of Sichuan Province  | 2018             |
| > Outstanding Graduates of University of Electronic Science and Technology of China                                  | 2018             |
| > China National Scholarship   | 2015, 2016, 2017 |

## R&D PROJECTS

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|---|-----------|
| > <b>AI-Powered, Personalized Analysis and Feedback Platform for K-12 Education in Computational Thinking Skills</b><br>This project proposes a visual analytics system; innovates an automated reporting system; and invents a personalized learning path recommendation system. | 2023-Now  |
| > <b>Centre for Slope Safety</b><br>In this project, our team contributes an AR game for the general public to understand the landslide prevention methods.   | 2022-Now  |
| > <b>Pulse of HKUST</b><br>This project develops a data visualization platform to palpate the “pulse” of the campus community, such as human crowds, facility availability, and events, through the combined power of data visualization, big data, and AI.                       | 2019-2023 |

## SERVICES

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### Participate in Grant Proposal Writing

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| > Technology Development of Digital Twin for Regional Earth System of the GBA (87 Million HKD) | 2023 |
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### Student Mentorship

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| > Xian Xu, PhD Students from VisLab                      | 2021-2023 |
| > Yanna Lin, PhD Students from VisLab                    | 2023      |
| > Fengjie Wang, Visiting Student from Sichuan University | 2023      |

### Paper Review

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|---|-----------|
| > The Conference on Information and Knowledge Management (CIKM)                   | 2023      |
| > ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW) | 2023      |
| > ACM CHI Conference on Human Factors in Computing Systems (ACM CHI)              | 2021-2024 |
| > China Visualization and Visual Analytics Conference (ChinaVis)                  | 2020-2023 |

### Teaching Assistance

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|--|-------------|
| > Computer Organization                    | Spring 2022 |
| > Introduction to Computer Science         | Fall 2019   |
| > Introduction to Computing with Excel VBA | Spring 2019 |