

Leni YANG

✉ cseleni@ust.hk 🌐 <https://yleni.github.io/>

EXPERIENCE

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

- **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, **Leni Yang**, Aoyu Wu, 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

- | | |
|----------------------------------------------------------------------------------------------------------------------|------------------|
| > 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

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| > AI-Powered, Personalized Analysis and Feedback Platform for K-12 Education in Computational Thinking Skills
This project proposes a visual analytics system; innovates an automated reporting system; and invents a personalized learning path recommendation system. | 2023-Now |
| > Centre for Slope Safety
In this project, our team contributes an AR game for the general public to understand the landslide prevention methods. | 2022-Now |
| > Pulse of HKUST
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

Participate in Grant Proposal Writing

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

Student Mentorship

- | | |
|----------------------------------------------------------|-----------|
| > 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

- | | |
|-----------------------------------------------------------------------------------|-----------|
| > 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

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