Li, Jianping (Kelvin)

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EDUCATION

University of California, Davis

Ph.D. Computer Science, *2014 – Present (expected graduation date: Jun 2020)*

B.S. Electrical Engineering and Computer Engineering, *2009*

RESEARCH EXPERIENCE

Graduate Researcher, **VIDi Lab, University of California, Davis**, Advisor: Prof. Kwan-Liu Ma, *2014.9 – Present*

- Research and innovate at the interaction of visualization, data mining, and high-performance computing.
- Develop programming tools for interactive visualization of big data, published in TVCG 2018 and InfoVis 2019.

Visiting Researcher, Alibaba Inc., Hangzhou, China, Mentor: Dr. Zhiyu Ding, *2017.6 – 2017.7*

- Designed methods and implemented systems for facilitating collaborative data analysis and visualization
- Established long term collaboration for conducting visual analytics research, published at EuroVis 2018 and 2020.

Graduate Researcher, DOE ASCR CODES-VIS Project, Mentor: Dr. Misbah Mubarak, *2015.10 – 2018.12*

- Joint work between U.C. Davis, Argonne National Lab, and RPI for developing tools to co-design next generation HPC systems and supercomputers.
- Led the design and development of visual analytics tools that integrate machine learning and interactive visualization methods for analyzing HPC applications and systems, published at IEEE Cluster 2017, VISINF 2018, and VDS 2019.

WORK EXPERIENCE

***Software Engineer,* Violin Memory Inc.,** Contract through SoftSol**,** Santa Clara, CA *2013.4 – 2014.6*

- Developed management software and test tools for monitoring PCIe SSD products in data centers

***Validation Engineer,* Supermicro Inc.,** San Jose, CA *2010.4 – 2013.3*

- Created test and automation tools for validating firmware and hardware on server motherboards and HPC systems.

SELECTED PUBLICATIONS

➤ *see all 16 publications*

★**Jianping Li** and Kwan-Liu Ma. "P5: Progressive Parallel Processing Pipelines for Interactive Data Analysis and Visualization." *IEEE Transactions on Visualization and Computer Graphics (Proc: InfoVis),* 2019.

★**Jianping Li** and Kwan-Liu Ma. "P4: Portable Parallel Processing Pipelines for Interactive Information Visualization." *IEEE Transactions on Visualization and Computer Graphics,* 2018.

★**Jianping Li,** et al, “Resolving Conflicting Insights in Asynchronous Collaborative Visual Analysis.” Computer Graphics Forum *(Proc: EuroVis)*, 2020

★**Jianping Li,** et al. "Visual Analytics Techniques for Exploring the Design Space of Large-Scale High-Radix Networks." *IEEE International Conference on Cluster Computing (CLUSTER), 2017.*

SKILLS

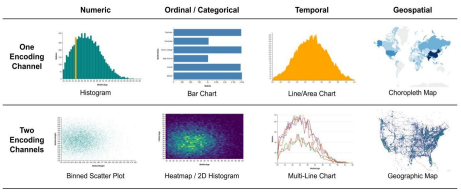
Programming: JavaScript, Python, HTML/CSS, C/C++, PHP, Bash, OpenGL/WebGL, D3.js, React, Vue.js

Systems and Tools: MySQL, MongoDB, Pandas, Spark, Scikit-Learn, TensorFlow, Mapbox

FEATURED PROJECTS

➤ *see all 12 projects*

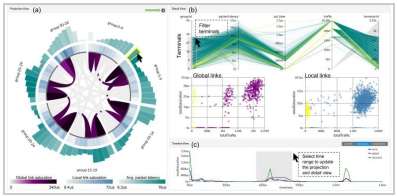
JavaScript Visualization Libraries



https://jpkli.github.io/p4/

10X faster than state-of-the-art tools

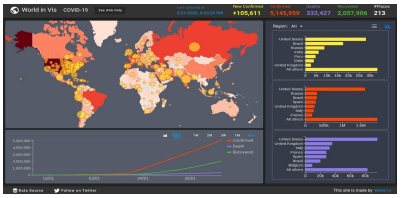
Performance Analysis Systems



https://havex.github.io/codes-netvis/

Improve supercomputer designs

COVID-19 Vis Dashboard



https://worldinvis.web.app/

Tracking the current pandemic