Mingwei Li

University of Arizona
Department of Computer Science
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Tucson, AZ 85719

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Education

University of Arizona
Doctor of Philosophy in Computer Science, 2016-2021.
Fields: Data Visualization, Machine Learning
Minor: Mathematics
Advisor: Prof. Carlos Scheidegger
GPA: 4.0/4.0

Hong Kong University of Science and Technology
Bachelor of Engineering, Honor Research Program, 2015
Major: Electronic Engineering
Minor: Mathematics
Thesis: Wi-Fi based Indoor Localization
Advisor: Prof. Shenghui Song
GPA: 3.682/4.3

Teaching

Department of Computer Science, University of Arizona
Teaching Assistant, CSC 245, Introduction to Discrete Structures, Summer 2018
Teaching Assistant, CSC 337, Web Programming, Fall 2016

Department of Electronic and Computer Engineering, HKUST
Student Helper, ELEC 1100, Introduction of Robotics, Fall 2012

Awards and Fellowships

GPSC Travel Grant
University of Arizona, Oct 2018

Graduate Assistantship, Department of Computer Science
University of Arizona, 2016-2021

Dean's List, School of Engineering
Hong Kong University of Science and Technology, 2011-2014

Scholarship for Continuing Undergraduate Students
Hong Kong University of Science and Technology, 2011-2014

Publications

Graph Drawing, 2020-Current

[Best Paper Award] Ahmed R, De Luca F, Devkota S, Kobourov S, Li M. Graph Drawing via Gradient Descent, $(GD)^2$. arXiv preprint arXiv:2008.05584. 2020 Aug 12.

Deep Learning Visualization, 2017-Current

[Best Submission Award] M. Li, and C. Scheidegger. Toward Comparing DNNs with UMAP Tour. VISxAI workshop, IEEE VIS 2020. Available at `https://tiga1231.github.io/umap-tour/`

M. Li, Z. Zhao, and C. Scheidegger. Visualizing Neural Networks with the Grand Tour. Distill.pub, 2020. Available at `https://distill.pub/2020/grand-tour/`

M. Li, Z. Zhao, C. Scheidegger. Visualizing Neuron Activations with the Grand Tour. Proceedings of the Workshop on Visualization for AI (VISxAI), 2018.

Z. Wang, D. Cashman, M. Li and J. Li, M. Berger, J. A. Levine, R. Chang, C. Scheidegger. NNCubes: Learned Structures for Visual Data Exploration. arXiv preprint arXiv:1808.08983 (2018)

Perception in Visualization, Algebraic Visualization, 2018-2019

M. Correll, M. Li, G. Kindlmann, and C. Scheidegger. Looks Good to Me: Visualizations as Sanity Checks. IEEE Transactions in Visualization and Computer Graphics (Proceedings of InfoVis), 2018.

Genome Data Visualization, 2016-2017

M. Li, A. C. Siri, A. K. Haug-Baltzell, E. Lyons, and C. Scheidegger. SynMapN: Interactive Visual Comparison for Multiple Genomes. IEEE Transactions in Visualization and Computer Graphics (Posters of IEEE InfoVis), 2017.

Indoor Localization, 2012-2014

M. Li, S. H. Song. Wi-Fi Based Indoor Localization. Undergraduate Research Opportunity Program (UROP). Department of Electronic and Computer Engineering, HKUST.

Skills

Python (PyTorch, Tensorflow, Numpy, Flask)
Javascript (D3.js), WebGL, HTML&CSS
Matlab, Latex