

Feng Wang

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Education

Arizona State University

Ph.D., Advisor: Dr. Ross Maciejewski

Visual Analytics Methods for Exploring Geographically Networked Phenomena

Computer Science

2012–2017 (*expected*)

University of Science and Technology of China

Master, Advisor: Prof. Zhangjin Huang

Computer Science

2009–2012

Shandong University

Bachelor, Diploma Project Mentor: Dr. Ming Sun

Software Engineering

2005–2009

Working Experiences

Pacific Northwest National Laboratory

Visualization for Climate Model Evaluation, Mentor: Dr. Aritra Dasgupta

A visual analytics system for climate model performance comparison with task based visualization recommendation.

Visual Analytics Intern

2016.06-2016.08

Purdue University

Visual Analytics of Network Heatmap, Collaborator: Shehzad Afzal

Integrating network heatmap algorithm into the VALET System

Research Intern

2015.06-2015.07

Honors

2015: Communications Impact Award, IEEE VGTC International Data-Visualization Contest

2013: Excellent Visual Analysis of Structured and Unstructured Data,
VAST Box Office Challenge in IEEE VIS conference

2009: Meritorious Winner, Mathematical Contest in Modeling (MCM)

2008: Second Prize in Shandong Region, China Undergraduate MCM

2008: Shandong University Research and Innovation Scholarship

2008: Honorable Mention, Interdisciplinary Contest in Modeling (ICM)

2007: Honorable Mention, CitiBank Cup Technology Application Contest

2006: Shandong University Outstanding Student Scholarship

Skills

Programming Language: JAVA, Javascript, C++, C, CUDA, GLSL, SQL, Matlab, R

Operating System: Linux, Windows, MacOS

Database: MySQL, MongoDB, PostgreSQL, SQLServer, IBM DB2

Version Control: Git, SVN

Libraries and Frameworks: Jersey, D3, WebGL, Backbone, Express, Qt, Crow, OpenGL

Miscellaneous: NGINX, Apache HTTP Server, Tomcat, Eclipse, Visual Studio

Projects

- Visual Analytics for Climate Model Evaluation
 - Develop the visual analytics system and task based visualization recommendation.
 - Skills: Javascript (Browser and Node.js)
- Chicago Health Access, ongoing
 - Investigate the relationship between public health conditions and heterogeneous data.
 - GITHUB: <https://github.com/Makosak/chihealthaccess>
 - Position: render the service range of medical facilities
 - Skills: Javascript, C++
- Visual Analytics Law Enforcement Toolkit (VALET), ongoing
 - A visual analytic system for police department to analyze crime spatiotemporal patterns, in collaboration with PURVAC.
 - Position: Integration of street network information
 - Skills: C++, OpenGL
- Foresight Initiative
 - Analyze the relationship between climate change and social unrest in Africa. Project website: <https://foresight.asu.edu/>
 - Position: Visual analysis design of social media and news media data
 - Skills: Java, Javascript
 - Position: data storage system architecture design
 - Skills: MongoDB, node.js, Java
- Visual Analysis of Genealogy of US Surnames, ongoing
 - Analyze the income inequity between different origins by linking US phonebook and heterogeneous data.
 - Position: Development
 - Skills: Java, PCA, KD-Tree, C++, Javascript, MySQL
- Visual Box Office Prediction with Social Media
 - Predict box office income and rating with Twitter and bitly in the visual analytics approach
 - Position: Server end development and interaction design of Webpages
 - Skills: Java, Javascript, MySQL
- Error Analysis and Modeling Techniques for Subdivision Surfaces
 - Position: Non-uniform subdivision surface analysis and GPU acceleration
 - Skills: C++, CUDA, OpenGL
- The Development and Optimization of Communication and Mathematical Library for Loongson 3A CPU
 - Position: Optimization for Blas Level 2 functions
 - Skills: C++, C, MIPS64 assembly

Professional Activities

Peer Review.....

- VAST Challenge (2016)
- International Journal of Geographical Information System (2016)
- EuroVis State of Art (STAR) (2016)

Teaching.....

Spring 2011: JAVA Programming Language

Fall 2011: Advanced Computer Graphics

Publications

F. Wang, R. Maciejewski, and E. Mack, "Analyzing entrepreneurial social networks with big data," *Annals of American Association of Geographers*, 2016.

Y. Lu, X. Hu, F. Wang, S. Kumar, H. Liu, and R. Maciejewski, "Visualizing social media sentiment in disaster scenarios," in *The 3rd International Workshop on Social Web for Disaster Management (SWDM'15)*, 2015.

Y. Lu, F. Wang, and R. Maciejewski, "Business intelligence from social media: A study from the vast box office challenge," *IEEE Computer Graphics and Applications*, 2014.

Y. Lu, R. Kruger, D. Thom, F. Wang, S. Koch, T. Ertl, and R. Maciejewski, "Integrating predictive analytics and social media," in *Proceedings of the IEEE Conference on Visual Analytics Science and Technology, November, 2014*, 2014.

F. Wang, J. Ibarra, A. Muhammad, P. A. Longley, and R. Maciejewski, "What's in a name? data linkage, demography and visual analytics," in *EuroVis Workshop on Visual Analytics, June, 2014*, 2014.

Y. Lu, F. Wang, and R. Maciejewski, "Vast 2013 mini-challenge 1: Box office vast - team vader," in *IEEE Conference on Visual Analytics Science and Technology, October, 2013.*, 2013.

F. Wang, Z. Huang, and L. Guo, "A mesh editing algorithm based on gaussian curvature," *Journal of Information & Computational Science*, 2013.

Z. Huang, F. Wang, and G. Wang, "Extended Doo-Sabin surfaces," *Journal of Information & Computational Science*, 2011.

L. Guo, F. Wang, Z. Huang, and N. Gu, "A fast and robust seed flooding algorithm on GPU for voronoi diagram generation," 2011.

[Reference.....](#)

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