Yali Bian

Tel: 0086-1345-6756-047 ◇ Email: yalibian@outlook.com

www.yalibian.com ◇ github://bianyali

Lib 215, Yuquan Campus, Zhejiang University

Hangzhou, Zhejiang, 310027, P. R. China

OBJECTIVE

To pursue a **Ph.D.** degree in **Computer Science**

EDUCATION

Zhejiang University   **Sep. 2013 - Present**
M.S. in Computer Science and Technology
Overall GPA: 3.78/4.0 (Based on Zhejiang Univ. GPA calculation)

Harbin Institute of Technology   **Sep. 2009 - Jun. 2013**
B.Eng. in Computer Science and Technology
Overall GPA: 88.40/100

PUBLICATIONS

Yali Bian, Jiangqing Wu, Liang yao. **Collected Papers Interactive Visual Analytics.** _Submited to Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2016_

Yingzhen Zhu, Xinyi Cao, **Yali Bian**, Jiangqin Wu. **CKGHV: A comprehensive knowledge graph for history visualization.** _Proceedings of the 14th ACM/IEEE-CS Joint Conference on Digital Libraries. IEEE Press, 2014_

Liang Yao, Yin Zhang, Baogang Wei, Wei Wang, Yuejiao Zhang, Xiaolin Ren, **Yali Bian**. **Discovering Treatment Pattern in Traditional Chinese Medicine Clinical Cases by Exploiting Supervised Topic Model and Domain Knowledge.** Accepted _Journal of Biomedical Informatics_

Ce Zhang, Gang Cui, **Yali Bian**, Hongwei Liu. **Component-based software reliability process simulation considering imperfect debugging.** _High Technology Letters, 2014, Vol.20, NO.1_

Ce Zhang, Gang Cui, Fanchao Meng, Hongwei Liu, **Yali Bian**. **A software reliability growth model for component based software incorporating debugging delay and imperfect debugging.** _High Technology Letters, 2015, Vol.21, No3_

Ce Zhang, Gang Cui, Hongwei Liu, Fanchao Meng, **Yali Bian**. **Component-based software reliability analysis incorporating imperfect debugging and change-point.** _High Technology Letters, 2014, Vol.20, NO.4_

TECHNICAL STRENGTHS AND INTERESTS

Data Visualization	Visual text analytics	Python, Java, JavaScript
	Information visualization	D3.js, Processing, Prefuse
	Scientific visualization	OpenGL, VTK
Software Visualization	Program visualization	Racket, Haskell, ML
	Visual software analytics	Type Systems
	Program comprehension	Static Structures

RESEARCH EXPERIENCE

Data-driven Analysis of Public Policy's Economic and Social Impact   2015
Data Science Institute, Imperial College London, UK

- Worked with Dr. Chao Wu to display the complex interplay between a country's infrastructure installations as well as characteristics and behaviors of its population

- Co-developed the data-driven visual analytics of China's "One Belt, One Road" Initiative, focusing on its economic and social impact (presented to Chinese President Xi Jinping during H.E's visit to the Imperial College)

China Knowledge Center for Engineering Science and Technology   2014
Key Project of the Chinese Academy of Engineering, P. R. China   *Graduate Research Assistant*

- Developed a knowledge-based papers interactive visual analytics: a system to mine topics from large collection of papers and visualize topics and their changes over time

- Designed and developed a life experience visualization system: combining a geographic map with timelines to indicate personal experience (employment, locations, personal events, etc.)

- Developed a cause-effect relation visual analytics: a bundle layout style view with interactive visualization components.

- Co-developed a visualization-creation toolkit to help web developers create and use common types of data visualization

China Academic Digital Associative Library   2013
211 Key Project of the Ministry of Education, P. R. China   *Graduate Research Assistant*

- Co-developed the Chronicle of Chinese Literature website, responsible for the development of the timeline of literature in Chinese history

- Co-developed the Calligraphy Website, responsible for the reformatting fonts with new calligraphy designs

Research on Software Reliability   2009-2012
Undergraduate Academic Research

- Worked with Prof. Ce Zhang to research on Software Reliability, responsible for the assessment of software reliability assessment models

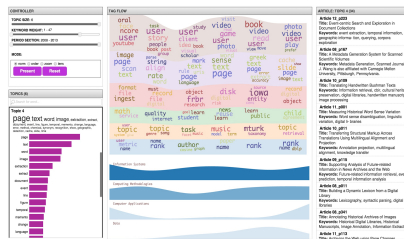- Published 4 articles on Software Reliability

AWARDS AND HONOURS

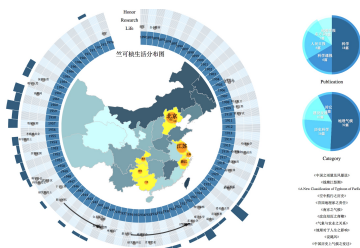|		
Graduate	Award of Honor for Graduate (twice)	2013 — 2015
	Certificate of Peking University Summer School of Visualization	07/2014
Undergraduate	Scholarship for Outstanding Students (four times)	2009 — 2012
	Award of Honor for Merit Student	2010 — 2011
	Honor of Service in Social Work	2010 — 2011

STANDARDIZED TESTS

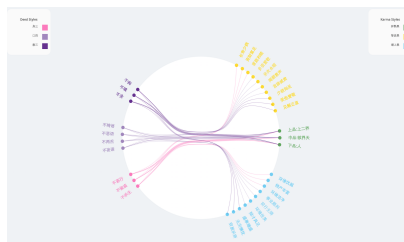|	
GRE (General)	Verbal 155 (67%) + Quantitative 168(95%) + AW 3.0 (15%)
TOEFL (iBT)	103 (Reading 30 + Listening 28 + Speaking 22 + Writing 23)

PROJECTS

Vis-Topics - github - demo
Vis-Topics is a knowledge-based papers interactive visual analytics: a system to mine topics from large collection of papers and visualize topics and their changes over time.

Vis-LifeStory - github - demo
Vis-LifeStory is applied to display the life story of someone visually, which includes: employment, locations, personal events, etc.
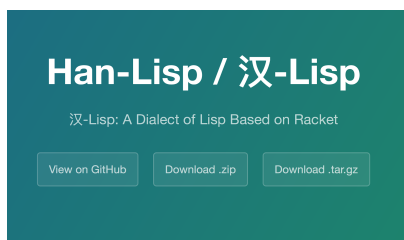
Vis-Karma - github - demo
A cause-effect relation visual analytics: a bundle layout style view. With lots of interactive visualization components, users can display, insert, edit and delete relations between causes and effects.

Vis-ThreeKingdoms - github - demo
A historical events visualization for users to learn history: the example of the Three Kingdoms in Chinese history shows how it visualizes the history of people, places and events.

Han-Lisp - github
Han-Lisp is a dialect of Lisp based on Racket. Definitions and expressions in Han-lisp are expressed in Chinese to help Chinese Lisp learners understand symbols in a more intuitive way.