Ketong Wang

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RESEARCH INTERESTS

Statistical model selection, local structures of social network, traffic accident data analysis, predictive modeling

EDUCATION

The University of Alabama, Tuscaloosa, AL

Ph.D., Applied Statistics, Expected: Fall 2016

• Advisor: Michael D. Porter, Ph.D.

University of Illinois at Urbana-Champaign, Champaign, IL

M.S., Statistics, Dec 2012

• Advisor: Jeff Douglas, Ph.D.

Huazhong University of Science & Technology, Wuhan, China

B.S., Statistics, June 2011

- Thesis Topic: Hydro-dynamics of Intracranial Pressure and Prediction of Postcraniectomy ICP
- Advisor: Xiaoyang Zhou, Ph.D.

RESEARCH EXPERIENCE

Research Assistant

Aug 2014 to present

Department of Information Systems, Statistics, and Management Science, The University of Alabama

Advisor: Michael D. Porter, Ph.D.

- Lasso-based model selection for hierarchical interactions in GLM
- Analysis of local communication patterns in social network
- Predictive modeling on traffic accident data for The State of Alabama

Research Assistant

June 2009 to June 2011

School of Mathematics and Statistics, Huazhong University of Science & Technology Advisor: Xiaoyang Zhou, Ph.D.

- Simulation on effectiveness of decrompressive craniectomy: Influence of area and size of craniectomy on intracranial pressure
- Data mining and statistical analysis on regional economic indicators

Papers In Progress

1. Wang, K., Simandl, J., Porter, M., Graettinger, A., Smith, A., Predictive Modeling on Non-signalized Intersection Crash Data of The State of Alabama.

JOURNAL PUBLICATIONS

- 1. Wu, C., Z, Nan., Wang, K., Zhou, X., A Model of Intracranial Pressure Including CSF Circulation Resistance and Decompressive Craniectomy. International Journal of Advancements in Computing Technology (IJACT), 4(19): 425-433.
- 2. Wang, K., Li, L., Li, D., Ding, Y., Zhou, X., Predicting Post-craniectomy ICP: A Comprehensive Compartmental Model including Decompressive Craniectomy, IJIEEB, 3(2): 49-55, 2011.
- 3. Wang K., Ding, Y., Zhang, X., Zhou, X., Post-craniectomy Intracranial Pressure Dynamics: A Novel Compartmental Model of Generalized Monro-Kellie Principle, IJEM, 1(3): 62-68, 2011.

Awards

Travel Awards

Joint Statistical Meetings, Seattle, WA
 The 2nd ICBECS, Wuhan, China
 Aug 2015
 Apr 2011

Student Awards — The University of Alabama, Department of ISM

Graduate Research Grant
 Graduate Council Fellowship
 Fall 2014
 2013-2014

Student Awards — HUST, School of Mathematics and Statistics

• Outstanding Graduation Thesis Award 2011

Presentations

Joint Statistical Meeting, Seattle, WA (expected)
 Applied Statistics Ph.D Seminar, Tuscaloosa, AL
 The 2nd ICBECS, Wuhan, China
 April, 2011

TEACHING EXPERIENCE Teaching Assistant

ST 260 - Statistical Data Analysis by Professor Michael D. Porter

Culverhouse College of Commerce,

The University of Alabama

Instructor Summer 2014

ST 260 - Statistical Data Analysis Culverhouse College of Commerce, The University of Alabama

Teaching Assistant

Fall 2013 to Spring 2014

 ST 260 - Statistical Data Analysis by Professor Ed Mansfield

Culverhouse College of Commerce,

The University of Alabama

INDUSTRIAL EXPERIENCE

Data Scientist

Dec 2012 to May 2013

MarkITx, LLc. Supervisor: Ben Blair

Chicago, IL

Spring 2015

- Products clustering and inventory refreshing for secondary IT equipment
- $\bullet \ \ \textit{Text-based distributed search engine} \textit{ElasticSearch}$

Data Science Intern

May 2012 Dec 2012

Innovation Center at UIUC, Neustar, Inc. Supervisor: Ken Taylor Champaign, IL

- Visualization and monitoring of Domain Name System (DNS) transaction logs
- $\bullet \ \ Detection \ and \ analysis \ of \ Distribution \ Denial \ of \ Service \ (DDos) \ attacks$

References

Michael D. Porter (Advisor)

Assistant Professor of Statistics Phone: 205-348-6520
Department of ISM E-mail: mporter@cba.ua.edu

The University of Alabama

Marcus Perry

Associate Professor of Statistics

Phone: 205-348-9864

Department of ISM

E-mail: mperry@cba.ua.edu

The University of Alabama

Brian Gray

Professor of Statistics and Associate Dean

Phone: 205-348-8912

Manderson Graduate School of Business

E-mail: bgray@cba.ua.edu

The University of Alabama