Taikgun Song

Address	227 Raphael Ave. Unit 11,	**Email**	songt@iastate.edu
	Ames, IA 50014	**Homepage**	www.teksong.com
Phone	+1 (515) 203 9466		

RESEARCH INTERST

Business Analytics, Big Data, Text Analytics, Topic Modeling, Natural Language Processing, Exploratory Data Analysis, Web Scraping, Data Visualization, Record Linkage, Statistical Learning, Bayesian Statistics

EDUCATION

Iowa State University, Ames, IA
Graduate Student, Department of Statistics, 2014–2017
Research topic: "Latent Dirichlet Allocation Models Considering Emojis"
Advisor: Heike Hofmann

Indiana University, Bloomington, IN
Graduate Student, Department of Mathematics, 2010–2012
Bachelor of Science in Mathematics, 2010
Bachelor of Arts in Chemistry, 2010

SOFTWARE SKILLS

Languages:	*Type Setting:*	*Content Management:*
R, Python, SAS, C++,	LaTeX	Git
CSS3 & HTML5, JavaScript,		
SQL, JAGS, JAVA		
Matlab, FORTRAN		

TECHNICAL PUBLICATION

[1] **Song, T.**, Hofmann, H. "emoji". In: *CRAN* (to be submitted December 4th). find at www.teksong.com

UNDER PREPERATION

[1] Im, J., **Song, T.**, Lee, Y., and Kim, J. "A confirmatory topic matching for online reviews". In: *Knowledge-Based Systems* (to be submitted late December 2017; revising manuscript).

[2] Cetin, K., **Song, T.**, Im, J. "Customer perception on smart home appliances based on Amazon reviews". In: *Applied Energy* (to be submitted early January 2018; writing manuscript).

[3] **Song, T.**, Hofmann, H. "Latent Dirichlet Allocation Models Considering Emojis". In: *The R Journal* (to be submitted; revising manuscript).

[4] **Song, T.**, Im, J. "Effect of the distribution channel on star rating.". In: *TBD* (to be submitted; analyzing data).

PRESENTATION & POSTERS

* Denotes presenter

[1] Im, J., **Song, T.**, Lee, Y. S., & Kim, J.* (2017). "A Confirmatory approach to extracting meanings from online customer reviews". In: *Proceedings of The 2017 AMA Conference.* San Francisco, CA

[2] **Song, T.***, Im, J., Lee, Y., Kim, J. "A Translation Approach for Unstructured Online Reviews". In: *Joint Statistical Meetings.* Contributed Poster. Chicago, IL, USA, Aug. 2016, find at www.teksong.com

[3] **Song, T.***, Cho, S., Jeon, H. "Album Recommendation System Based on Random Forest Method and Mixed Effect Model". In: *Joint Statistical Meetings.* Contributed Presentation. Seattle, WA, USA, Aug. 2015, find at www.teksong.com

[4] **Song, T.**, Cho, S., Jeon, H. "Estimate the trend of social atmosphere in the US by examining popular songs played over". In: *Statistical Graphics Working Group, ISU.* Invited Presentation. Ames, IA, USA, Feb. 2015

TEACHING EXPERIENCE

ISU class size: 60

Iowa State University, Ames, IA, USA

Instructor
STAT226 - Introduction to Business Statistics I   **Fall 2017**
STAT104 - Introduction to Statistics   **Spring 2015 – Fall 2017**

Lab Instructor   **Fall 2014**
STAT101 - Principles of Statistics

Grader   **Fall 2014**
STAT104 - Introduction to Statistics

Indiana University, Bloomington, IN, USA

Teaching Assistant - Conduct Recitation   **2011 – Spring 2012**
MATH M303 - Linear Algebra
MATH M120 - Brief Survey of Calculus II
MATH M119 - Brief Survey of Calculus I
MATH D117 - Intro to Finite Mathematics II

Undergraduate Internship - Conduct Help Session   **2009 – 2010**
MATH M119 - Brief Survey of Calculus I
MATH M118 - Finite Mathematics

Undergraduate Gradership - Grader   **2008 – 2009**
MATH J112 - Intro to College Mathematics II
MATH M101 - Mathematics for Elementary Teachers I
MATH M025 - Precalculus Mathematics

COURSEWORK

Core Statistics Theory:
STAT642: Advanced Probability Theory   PhD Course
STAT641: Foundations of Probability Theory   PhD Course
STAT543: Theory of Probability and Statistics II
STAT542: Theory of Probability and Statistics I

Core Statistics Method:
STAT601: Advanced Statistical Methods   PhD Course
STAT520: Statistical Methods III
STAT510: Statistical Methods II
STAT500: Statistical Methods I

Statistics Elective:
STAT-S631: Applied Linear Models I   Indiana University
STAT-S620: Intro to Statistical Theory   Indiana University
STAT585: Data Technologies for Statistical Analysis
STAT579: An Introduction to R
STAT551: Time Series Analysis

STAT544: Bayesian Statistics
STAT512: Design of Experiments
SOC512: Applied Multivariate Statistics for Social and Behavioral Research
STAT503: Exploratory Methods and Data Mining

Mathematics:
MATH-M551: Markets and Asset Pricing   Indiana University
MATH-M518: Fourier Analysis   Indiana University

LEADERSHIP & SERVICE	**Midwest Big Data Summer School**, Iowa State University	2017

LEADERSHIP & SERVICE

Midwest Big Data Summer School, Iowa State University   2017
Session Assistant
The curriculum was designed for early career researchers to get them started in data-driven research. The session covered basics of R, data visualization, and data processing.

Military Service, KATUSA, ROKA   2012 – 2014
KATUSA–Korean Augmentation ot the US Army
Served as a supply specialist, brigade combat interpreter, and later as the Senior KATUSA of the 1st Armored Brigade Combat Team, 2ID.

Office of International Services, Indiana University   2008 – 2012
Staff
Voluntary staff member of the OIS at Indiana University. Help in-processing of new international students admitted to IU.

AWARDS & HONORS

Senior KATUSA, 1ABCT, 2ID, US ARMY   2013 – 2014
KATUASA, ROKA
Brigade Senior KATUSA position of the 1st Armored Brigade Combat Team, 2ID, US Army

Certificate of Appreciation, 1ABCT, 2ID, US Army   2014
Combat Translator
Awarded for the contribution to the 1st Armored Brigade Combat Team as a combat translator.

Undergraduate Intern Award, Department of Mathematics, Indiana University   2010
Undergradutate Intern
Awarded to the top undergraduate instructor.

Volunteer of the Year, OIS, Indiana University   2009
OIS Voluntary Staff
Awarded to the outstanding volunteer student who participated during the international student orientation week.

EXTRA-CURRICULAR ACTIVITIES

Good Neighbor Program – Civil Military Operation, USFK   2012 – 2014
Volunteer; Instructor
A Civil Military Operation to improve Korean-American relations and strengthen the Republic of Korea (ROK)-US Alliance. Few examples of the program activities: Language exchange, Local community volunteer support, Sporting exchange, and etc.

IU Math Club, Indiana University   2008 – 2010
Club Member