

## Taikgun Song

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**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

<b>SOFTWARE SKILLS</b>	<i>Languages:</i> R, Python, SAS, C++, CSS3 & HTML5, JavaScript, SQL, JAGS, JAVA Matlab, FORTRAN	<i>Type Setting:</i> L <sup>A</sup> T <sub>E</sub> X	<i>Content Management:</i> Git
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**TECHNICAL PUBLICATION** [1] **Song, T.**, Hofmann, H. “emoji”. In: *CRAN* (to be submitted December 15<sup>th</sup>). find at [www.teksong.com](http://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** [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

\* Denotes presenter [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](http://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](http://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

**Iowa State University**, Ames, IA, USA

*Instructor*

STAT226 - Introduction to Business Statistics I

**Fall 2017**

ISU class size: 60

STAT104 - Introduction to Statistics

**Spring 2015 – Spring 2016**

*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  
 MATH-M518: Fourier Analysis

Indiana University  
 Indiana University

**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 of the US Army*

Served as a supply specialist, brigade combat interpreter, and later as the Senior KATUSA of the 1<sup>st</sup> 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 1<sup>st</sup> Armored Brigade Combat Team, 2ID, US Army

**Certificate of Appreciation**, 1ABCT, 2ID, US Army 2014

*Combat Translator*

Awarded for the contribution to the 1<sup>st</sup> Armored Brigade Combat Team as a combat translator.

**Undergraduate Intern Award**, Department of Mathematics, Indiana University 2010

*Undergraduate 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*