

# Hayeong Song

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## Education

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**PhD** Computer Science, Georgia Institute of Technology, GPA: 4.0/4.0 *Aug 2018 - Present*  
*Advised by Dr. John Stasko*  
**M.S.** Computer Science, University of Colorado Boulder, GPA: 3.66/4.0 *2016 - 2018*  
*Advised by Dr. Danielle Albers Szafr*  
**B.S.** Computer Science, Handong Global University, GPA: 3.6 *2012-2016*

## Publications

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**Hayeong Song** & Danielle Albers Szafr. “Where’s My Data? Evaluating Visualizations with Missing Data.” IEEE Transactions on Visualizations and Computer Graphics, 2019 (to appear). In Proceedings of IEEE VIS 2018.

## Relevant Experience

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**Research Assistant, Georgia Institute of Technology** *Jan 2019 - Present*  
*CS7450 Information Visualization*

- Working on combining multimodal(e.g. touch and speech) visualization interface support data analysis.

**Teaching Assistant, Georgia Institute of Technology** *Aug 2018 - Dec 2018*  
*CS7450 Information Visualization*

- Hold office hours for a class consisted of 80 students.
- Responsible for grading labs, assignments, project, and exams.

**Research Assistant, University of Colorado, Boulder** *Feb 2017- June 2018*  
*VisuaLab, Advisor: Professor Danielle Albers Szafr*

- Conducted the crowdsourced studies which measure the perceived confidence depending on visualization and imputation method on missing data.
- Collected Tweets using Twitter Stream API and pre-processed data for analysis.
- Analyzed data with sentiment analysis, topic modeling, and time-series analysis using machine learning and natural language processing models.
- Stored and merged Tweets and Public Health data using a relational database.
- Built a prototype of interactive visualization system with data analysis results.

**Internship at Dabarun Software** *Jan 2015 - Feb 2015*

- Designed and implemented a game UI using android and Bayaba Game Engine.
- Implemented the chatting client and server using Mongo DB, Node.js and MySQL.
- Implemented client part of the android application.

**Teaching Assistant, Handong Global University** *Dec 2014-Jan 2015*  
*ECE10002-01 C-programming*

- Held tutor sessions and Taught 50 students the fundamental of programming in C.
- Graded assignments and exams.

## Programming Skills

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**Languages:** Python, C/C++, Java, MATLAB, HTML/CSS, JavaScript, PHP

**Databases:** MySQL, MongoDB, AWS

**Platforms & Toolkits:** Pandas, Scikit-learn, Numpy, Scipy, Matplotlib, NLTK, Gensim, Latex, Sketch, D3.js, Tableau, Android

## Honors and Awards

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**the 1st Prize in C-Programming Camp, Handong Global University, South Korea** 2013

**the 2nd Prize in Samsung Software Friendship** 2014

**Entrance Scholarship (awarded to 15% of all freshmen), Handong Global University** 2012

## CourseWork

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- Machine Learning
  - Natural Language Processing
  - Information Visualization
  - Network Systems
  - Probabilistic Models
  - Network Analysis and Modeling
  - Foundation of Software Engineering
  - Educational Tech Foundations
  - \*Human Computer Interact
- (\*)denotes in progress