

# KANIT "HAM" WONGSUPHASAWAT (RESUME)

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## EDUCATION

**University of Washington** (Exp. Summer'18)  
**MS & PhD Computer Science & Engineering**  
Area: HCI, Data Visualization, Data Science  
Advisor: Dr. Jeffrey Heer

**Stanford University** (2013)  
**MS Management Science & Engineering**  
Area: HCI, Entrepreneurship  
★ Awarded Fulbright Fellowship

**Chulalongkorn University** (2010)  
**BEng Computer Engineering**  
★ Awarded Gold Medal & HM The King Scholarship (ranked 1st of 800+ students)

## EMPLOYMENT

**Interactive Data Lab, University of Washington – Graduate Researcher (Data Visualization Tools)** 2013-Present

- Lead the design, development, and user studies of **Voyager**, a recommendation-powered visualization tool for exploratory data analysis – manage a team of 5 developers (★ Won Knight Prototype Grant, adopted by Jupyter data science community)
- Co-lead the design & development of the **Vega-Lite** grammar for interactive visualizations—manage a team of 7 developers (~30k NPM downloads/month, shipped with JupyterLab, used in companies including Apple, Google, Microsoft & Netflix, wrapped in Python)
- Conduct interviews with data scientists to understand current practices and difficulties in exploratory data analysis

**Google Inc. – Software Engineering Intern (Big Picture Group, Google Research)** 2015

- Led the design & development of **TensorFlow Graph Visualizer**, a tool to visualize dataflow graphs of deep learning models (with Dr. Martin Wattenberg, Dr. Fernanda Viégas & Google Brain) – Shipped with **TensorBoard** (TensorFlow's official dashboard tool)

**Trifacta Inc. – Software Engineering Intern (Research & Development)** 2014

- Designed & prototyped intelligent user interfaces for data cleaning and transformations

**Tableau Software Inc. – Research Intern (Visual Analysis Team)** 2013

- Designed & prototyped visualization recommender system (with Dr. Jock Mackinlay & Dr. Anushka Anand) ★ US Patented

**Stanford University – Graduate Researcher** 2012-2013

- UI lead of **VentureLab**, a MOOC platform (spun off as **NovoEd**); peer assessment for MOOC research with Dr. Scott Klemmer

**Google Inc. - Software Engineering Intern (HCI Group, Google Research)** 2012

- Developed a mobile social software application (with Dr. Elin Pedersen and Dr. Bay-Wei Chang)

**Thomson Reuters Software - Software Engineering Intern, Associate Software Engineer** 2009, 2010-2011

- Led UI Design for Alerting and Monitoring System of Thomson Reuters Market Data System

**Singha Corporation (Thailand) - Management Trainee Intern** 2010

- Organized regional marketing campaign to increase sales

## SELECTED PUBLICATIONS

**Voyager 2: Augmenting Visual Analysis with Partial View Specifications**

Wongsuphasawat, et al. ACM Human Factors in Computing Systems (CHI) 2017.

**Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations**

Wongsuphasawat, et al. IEEE Trans. Visualization & Computer Graphics (InfoVis) 2015. ★ 1 of 4 Top TVCG papers invited to SIGGRAPH'16

**Vega-Lite: A Grammar of Interactive Graphics**

Satyanarayan, Moritz, Wongsuphasawat, Heer. IEEE Trans. Visualization & Computer Graphics (InfoVis) 2016. ★ Best Paper Award (Top 1)

**Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow**

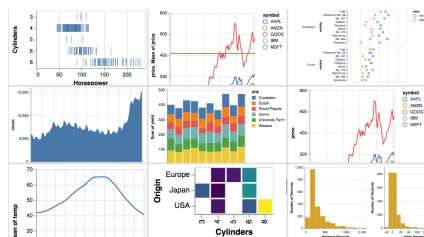
Wongsuphasawat, et al. IEEE Trans. Visualization & Computer Graphics (VAST) 2017. ★ Best Paper Award (Top 1)

**GraphScope: A Model for Automated Reasoning about Visualization Similarity and Sequencing.**

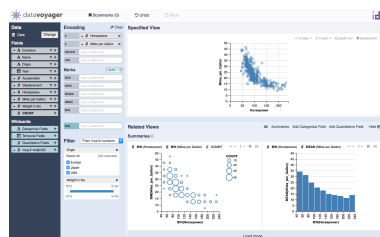
Kim, Wongsuphasawat, et al. ACM Human Factors in Computing Systems (CHI) 2017. ★ Best Paper Honorable Mention (Top 5%)

## SKILLS

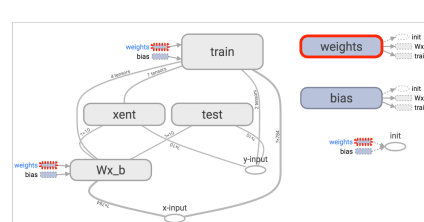
**Coding:** (Proficient) JavaScript/TypeScript, HTML/CSS, d3.js, React (Knowledgeable) Python, Java; **Data Analysis:** Tableau, Machine Learning  
**User-Centered Design:** Experimental Design, Qualitative Interview; **Creative Authoring:** Sketch, Keynote, OmniGraffle, Illustrator



**Vega-Lite: Grammar of Interactive Graphics**  
<http://vega.github.io/vega-lite>



**Voyager: Intelligent Visualization Tool**  
<http://vega.github.io/voyager>



**TensorFlow Graph Visualizer**  
<http://idl.cs.washington.edu/papers/tfgraph>