

# KANIT (HAM) WONGSUPHASAWAT

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Last Updated Sep 17, 2017

## EDUCATION

**University of Washington** (Exp. June'18)  
**Ph.D. Computer Science & Engineering**  
Focus: Visualization & User Interface  
Advisor: Dr. Jeffrey Heer

**Stanford University** (2013)  
**M.S. Management Science & Engineering**  
Focuses: Entrepreneurship / User Interface  
★ Awarded Fulbright Fellowship

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

## EXPERIENCE

**Interactive Data Lab, University of Washington – Graduate Student Researcher** 2013-Present

Lead the development of the **Voyager** recommendation-powered visualization tool—mentored 8 undergraduate students and 2 PhD students (★ Winner of Knight Prototype Grant, adopted by iPython /Jupyter data science community)

Co-lead the development of the **Vega-Lite** grammar of interactive graphics—mentored 7 undergraduate students (>25k downloads on NPM/month in Oct'17, shipped in JupyterLab, wrapped in many other languages such as Altair in Python)

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

Developed TensorFlow Graph Visualizer (with Google Big Picture Group and Google Brain) – Shipped with TensorFlow

**Trifacta Inc. – Software Engineering Intern** 2014

Developed 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 Student Researcher** 2012-2013

Led initial UI design for **Venture-lab**, a MOOC platform (spun off as **NovoEd**); research on peer assessment systems for MOOC.

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

Researched & developed a mobile social software prototype (with Dr. Elin Pedersen)

**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) 2016. ★ 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) 2017. ★ Best Paper Award (Top 1)

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

Wongsuphasawat, et al. IEEE Trans. Visualization & Computer Graphics (VAST) 2018. ★ Best Paper Award (Top 1)

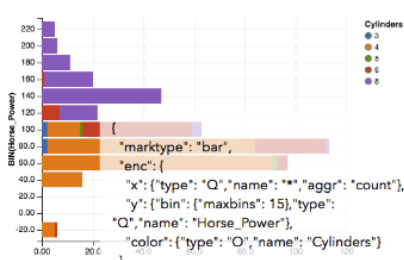
**GraphScope: A Model for Automated Reasoning about Visualization Similarity and Sequencing.**

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

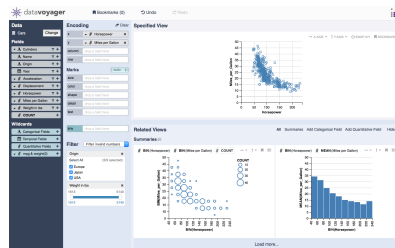
## SKILLS

**Coding:** (Advance) JavaScript/TypeScript, HTML/CSS, d3.js, ReactJS (Intermediate) Java, Python; **Data Analysis:** R / Tableau;

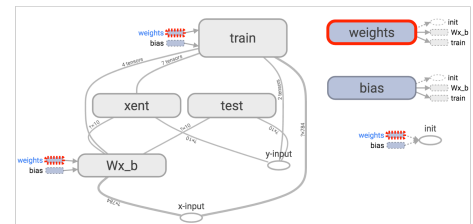
**Creative Authoring:** Sketch, Keynote, OmniGraffle, Photoshop, Illustrator



Vega-Lite Visualization Grammar  
<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>