

KANIT "HAM" WONGSUPHASAWAT (RESUME)

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EDUCATION

University of Washington (2018)

MS & PhD Computer Science & Engineering
Area: HCI, Data Visualization, Data Science
Advisor: Dr. Jeffrey Heer ★ [Dissertation Award](#)

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)

RECENT EMPLOYMENT

Apple Inc. – Research Scientist, Technical Lead

2018-Present

- Lead a team to research and develop data visualization and interactive tools for data science and machine learning

Interactive Data Lab, University of Washington – Graduate Researcher (Data Visualization Tools)

2013-2018

- Led the design, development, and evaluation 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-led the design & development of the Vega-Lite grammar for interactive visualizations – co-manage a team of 7 developers ([1M jsDelivr downloads/month](#), shipped with JupyterLab, wrapped in Python as Altair, used at Apple, Google, Microsoft, Netflix, and Twitter)
- Conducted 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 chart recommender system (with Dr. Jock Mackinlay & Dr. Anushka Anand) ★ [US Patented](#)

SELECTED PUBLICATIONS

Understanding and Visualizing Data Iteration in Machine Learning

F. Hohman, K. Wongsuphasawat, M. Kery, K. Patel. ACM Human Factors in Computing Systems (CHI) 2020.

Tempura: Query Analysis with Structural Templates

T. Wu, K. Wongsuphasawat, D. Ren, K. Patel, C. Dubois. ACM Human Factors in Computing Systems (CHI) 2020.

Voyager 2: Augmenting Visual Analysis with Partial View Specifications

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

Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations

K. 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

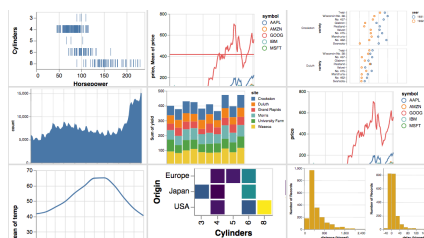
A. Satyanarayan, D. Moritz, K. Wongsuphasawat, J. Heer. IEEE Trans. Visualization & Computer Graphics (InfoVis) 2016. ★ [Best Paper \(Top 1\)](#)

Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow

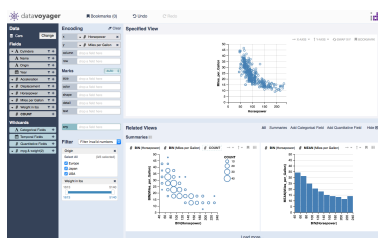
K. Wongsuphasawat, et al. IEEE Trans. Visualization & Computer Graphics (VAST) 2017. ★ [Best Paper \(Top 1\)](#)

SKILLS

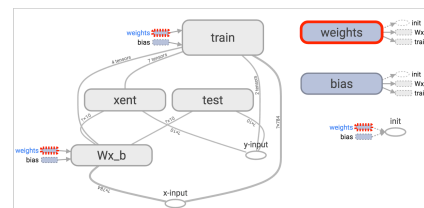
Coding: (*Proficient*) JavaScript/TypeScript, HTML/CSS, d3.js, React (*Knowledgeable*) Python, Java; Data Science: Tableau, Machine Learning User-Centered Design: Experimental Design, Qualitative Interview; Creative Authoring: Sketch, Keynote, OmniGraffle, Illustrator



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



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



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