

KANIT (HAM) WONGSUPHASAWAT

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Last Updated Sep 12, 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 **Vega-Lite** visualization grammar¹ (>10k downloads on NPM/month in Aug'17, shipped in JupyterLab)
Lead the development of the **Voyager** recommendation-powered visualization interface^{2,3} (★ Winner of Knight Prototype Grant)
Supervise 12 undergraduate students on software development, mentor 2 junior PhD students, and co-author 7 research papers

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

Developed **TensorFlow Graph Visualizer**⁴, part of the TensorFlow platform (with Dr. Martin Wattenberg & Dr. Fernanda Viégas)

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) ★ 4 US Patents

Venture Lab, Stanford University – Graduate Student Researcher 2012-2013

Led initial UI design for **Venture-lab**, a MOOC platform (spun off as **NovoEd**)

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

¹ Vega-Lite: A Grammar of Interactive Graphics

Satyanarayan, Moritz, Wongsuphasawat, Heer. IEEE Trans. Visualization & Computer Graphics (InfoVis) 2017. ★ Best Paper Award (Top 1)

² Voyager 2: Augmenting Visual Analysis with Partial View Specifications

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

³ 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

⁴ Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow

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

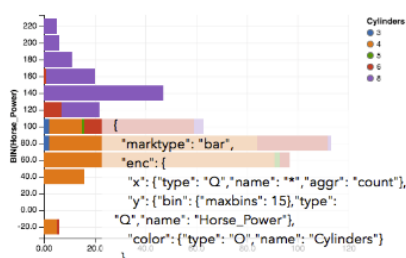
⁵ GraphScape: A Model for Automated Reasoning about Visualization Similarity and Sequencing.

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

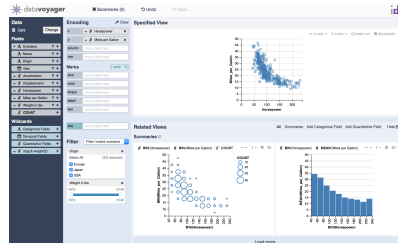
SKILLS

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

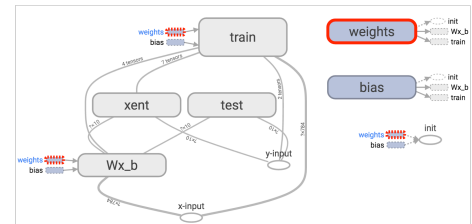
Creative Authoring: Sketch, Keynote, OmniGraffle, Photoshop, Illustrator



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>

