KANIT "HAM" WONGSUPHASAWAT (RESUME)

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EDUCATION

University of Washington (Exp. Aug'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 6 research assistants (★ 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 research assistants (>160k NPM downloads as of 11/2017, shipped with JupyterLab, used in companies including at Apple and Google, 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 in TensorFlow (with Dr. Martin Wattenberg, Dr. Fernanda Viégas & Google Brain) – Shipped with Google's TensorFlow library

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) 2016. ★ 1 of 4 Top TVCG papers invited to SIGGRAPH'16

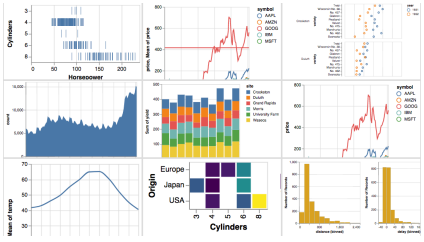
Vega-Lite: A Grammar of Interactive Graphics
Satyanarayan, Moritz, Wongsuphasawat, Heer. IEEE Trans. Visualization & Computer Graphics (InfoVis) 2017. ★ Best Paper Award (Top 1)

Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow
Wongsuphasawat, et al. IEEE Trans. Visualization & Computer Graphics (VAST) 2018. ★ Best Paper Award (Top 1)

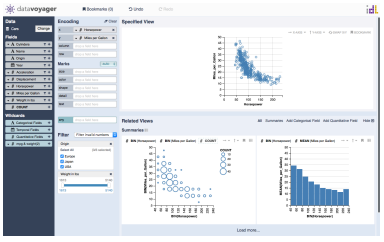
GraphScape: A Model for Automated Reasoning about Visualization Similarity and Sequencing.
Kim, Wongsuphasawat, et al. ACM Human Factors in Computing Systems (CHI) 2017. ★ Best Paper Honorable Mention (Top 5%)

SKILLS

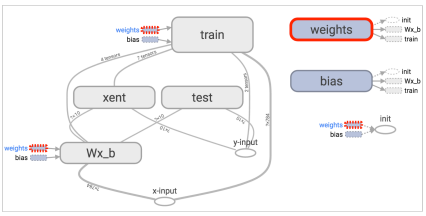
Coding: *(Proficient)* JavaScript/TypeScript, HTML/CSS, d3.js, React *(Knowledgeable)* Python, Java; **Data Analysis:** R / Tableau;
User-Centered Design: Experimental Design, Qualitative Interview; **Creative Authoring:** Sketch, Keynote, OmniGraffle, Illustrator



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