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.

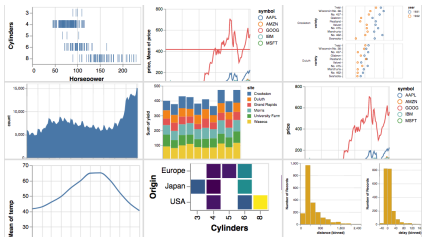
Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations
K. Wongsuphasawat, et al. IEEE Trans. Visualization & Computer Graphics (InfoVis) 2015. ★ 1 of 4 Top TVCG papers invited to SIGGRAPH'16

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)

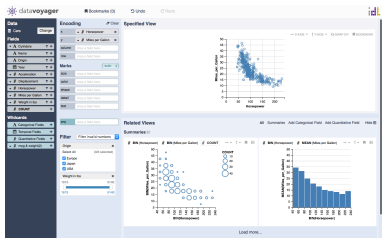
Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow
K. Wongsuphasawat, et al. IEEE Trans. Visualization & Computer Graphics (VAST) 2017. ★ Best Paper (Top 1)

SKILLS

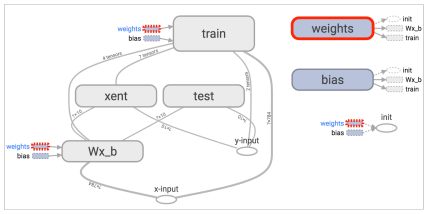
Coding: *(Proficient)* JavaScript/TypeScript, HTML/CSS, d3.js, React *(Knowledgeable)* Python, Java; Data Science: Tableau, Machine Learning
User-Centered Design: Experimental Design, Qualitative Interview; Creative Authoring: Sketch, Keynote, OmniGraffle, Illustrator



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