

# KANIT (HAM) WONGSUPHASAWAT

## CURRICULUM VITAE

Phone 240 485 4282 Email [kanitw@cs.washington.edu](mailto:kanitw@cs.washington.edu) Portfolio <http://kanitw.yellowpigz.com>  
Address AC101 Paul G Allen Center, 185 Stevens Way, Seattle, WA 98195

## RESEARCH INTERESTS

Information Visualization, Human-Computer Interaction (HCI)

## EDUCATION

- Sep 2013 - Present **University of Washington**—PhD in Computer Science & Engineering  
Advisor: Jeffrey Heer
- Sep 2011- Jun 2013 **Stanford University** – MS in Management Science & Engineering  
Advisor: Amin Saberi
- Jun 2006 - Feb 2010 **Chulalongkorn University (Thailand)** – BEng in Computer Engineering  
Advisor: Sukree Sinthupinyo

## PUBLICATIONS

- 2018 **Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow.**  
*Wongsuphasawat, Smilkov, Wexler, Wilson, Mané, Fritz, Viégas, and Wattenberg.*  
IEEE Transactions on Visualization and Computer Graphics (VAST) 2018.  
🏆 *VAST Best Paper Award (Top 1).*
- 2017 **Voyager 2: Augmenting Visual Analysis with Partial View Specifications.**  
*Wongsuphasawat, Qu, Moritz, Chang, Ouk, Anand, Mackinlay, Howe and Heer.*  
ACM Human Factors in Computing Systems (CHI), 2017.
- 2017 **GraphScope: A Model for Automated Reasoning about Visualization Similarity and Sequencing.** *Kim, Wongsuphasawat, Hullman, Heer.*  
ACM Human Factors in Computing Systems (CHI), 2017.  
🏆 *Best Paper Honorable Mention.*
- 2017 **Vega-Lite: A Grammar of Interactive Graphics.**  
*Satyanarayan, Moritz, Wongsuphasawat, Heer.*  
IEEE Transactions on Visualization and Computer Graphics (InfoVis) 2017.  
🏆 *InfoVis Best Paper Award (Top 1).*
- 2016 **Towards A General-Purpose Query Language for Visualization Recommendation.**  
*Wongsuphasawat, Moritz, Anand, Mackinlay, Howe, Heer.*  
ACM SIGMOD Human-in-the-Loop Data Analysis (HILDA) 2016.
- 2015 **Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations.**  
*Wongsuphasawat, Moritz, Anand, Mackinlay, Howe, Heer.*  
IEEE Transactions on Visualization and Computer Graphics 2015 (InfoVis) 2015.  
🏆 *Invited to Present at SIGGRAPH 2016 (1 of 4 invitees).*
- 2014 **Declarative Interaction Design for Data Visualization.**  
*Satyanarayan, Wongsuphasawat, Heer.*  
ACM User Interface Software and Technology (UIST) 2014.

## EMPLOYMENT

- Sep 2013 - Present **University of Washington, Computer Science & Engineering** – Graduate Researcher  
Research on visualization tools and recommender systems for data exploration
- Jun 2015 – Sep 2015 **Google Inc. (Google Research)** – Software Engineering  
Visualization tool design for machine learning with Martin Wattenberg & Fernanda Viégas

- Jun 2014 – Sep 2014 **Trifacta Inc. – Software Engineering Intern**  
Mixed-initiative data transformation tool prototyping
- Jun 2013 – Sep 2013 **Tableau Software Inc. – Research Intern**  
Research on visual analysis tools with Jock Mackinlay and Anushka Anand
- Jan 2012 – Jun 2012 **Stanford University – Graduate Researcher**  
Research on massive online learning systems with Scott Klemmer and Chinmay Kulkarni
- Jun 2012 – Sep 2012 **Google Inc. (Google Research) – Software Engineering Intern**  
Research on mobile social computing with Elin Pedersen and Bay Chang
- Aug 2010 – Apr 2011 **Thomson Reuters Software – Associate Software Engineer**  
Dashboard design for a data monitoring system
- Mar 2010 - May 2010 **Singha Corporation (Thailand) – Management Trainee Intern**  
Cross-functional marketing, sales, and management training and internship
- Mar 2009 - May 2009 **Thomson Reuters Software – Software Engineering Intern**  
Test cases management system development for data access control product

## TEACHING EXPERIENCE

- Apr - Jun 2017 **CSE442 Data Visualization Course Assistant** – University of Washington
- Jan - Mar 2014 **CSE512 Data Visualization Course Assistant** – University of Washington

## SOFTWARE RELEASES

- Voyager** – <http://github.com/vega/voyager>  
Recommendation-powered visualization browser for exploratory analysis
- Vega-Lite** – <http://github.com/vega/vega-lite>  
High-level visualization specification language for statistical graphics
- CompassQL** – <http://github.com/vega/compassql>  
Recommender system that suggests visualizations using data properties and perceptual principles

## HONORS & AWARDS

- 2011-2013 **Fulbright Fellowship**
- 2010 **Valedictorian Gold Medal Award – Chulalongkorn Computer Engineering**  
**His Majesty the King Bhumibol Undergraduate Scholarship**  
**Winner of Thailand National Software Contest (University Level)**
- 2009 **3rd Place of Small-size League - International Robocup**  
**HRH the Royal Crown Prince of Thailand Top Engineering Student Medal**
- 2007 - 2009 **Chulalongkorn University President Award for Outstanding Student**
- 2008 **Runner-Up – Thailand ICT Award (University Level)**  
**3<sup>rd</sup> Place High Performance Award –Accenture Thailand Academic Exhibition**  
**Honorable Mention – ACM ICPC Regional Contest**
- 2007 **Winner – SMART Innovation Award (A premier mobile software contest in Thailand)**
- 2004 **Bronze Medalist – Thailand Olympiad in Informatics**