KANIT (HAM) WONGSUPHASAWAT (CURRICULUM VITAE)

kanitw@gmail.com @kanitw +1(240) 485 4282 See demos & research statement at http://kanitw.github.io Last Updated Jan 16, 2018

EDUCATION

University of Washington (Exp. Summer'18) Stanford University (2013) MS & PhD Computer Science & Engineering

Area: Human-Computer Interaction, UI Systems, Data Visualization, Data Science Advisor: Dr. Jeffrey Heer

MS Management Science & Engineering Area: Human-Computer Interaction, Entrepreneurship

★ Awarded Fulbright Fellowship

Chulalongkorn University (2010) **BEng Computer Engineering**

★ Awarded Gold Medal & HM The King Scholarship (ranked 1st of 800+ students)

RESEARCH INTERESTS

Human-Computer Interaction, User Interface Systems, Data Visualization, and Data Science.

My PhD research focuses on augmenting visualization tools with automated design and recommendation to help users achieve their goals more effectively with less efforts, for applications including exploratory data analysis and understanding deep learning models. I look forward to studying and designing more tools that facilitate people, both experts and novices, to work with and benefit more from data via visualization and artificial intelligence.

REFEREED PAPERS

P7. Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow

Kanit Wongsuphasawat, Daniel Smilkov, James Wexler, Jimbo Wilson, Dandelion Mané, Doug Fritz, Fernanda Viégas, Martin Wattenberg. IEEE Trans. Visualization & Computer Graphics (VAST) 2017. [23% Acceptance Rate] ★ Best Paper Award (Top 1)

P6. Voyager 2: Augmenting Visual Analysis with Partial View Specifications

Kanit Wongsuphasawat, Zening Qu, Dominik Moritz, Riley Chang, Felix Ouk, Anushka Anand, Jock Mackinlay, Bill Howe, Jeffrey Heer. ACM Human Factors in Computing Systems (CHI) 2017. [25% Acceptance Rate]

P5. GraphScape: A Model for Automated Reasoning about Visualization Similarity and Sequencing.

Younghoon Kim, Kanit Wongsuphasawat, Jessica Hullman, Jeffrey Heer. ACM Human Factors in Computing Systems (CHI) 2017. [25% Acceptance Rate] ★ Best Paper Honorable Mention (Top 5%)

P4. Vega-Lite: A Grammar of Interactive Graphics.

Arvind Satyanarayan, Dominik Moritz, Kanit Wongsuphasawat, Jeffrey Heer. IEEE Trans. Visualization & Computer Graphics (InfoVis) 2016. [22% Acceptance Rate] ★ Best Paper Award (Top 1)

P3. Towards A General-Purpose Query Language for Visualization Recommendation.

Kanit Wongsuphasawat, Dominik Moritz, Anushka Anand, Jock Mackinlay, Bill Howe, Jeffrey Heer. ACM SIGMOD Human-in-the-Loop Data Analysis (HILDA) 2016. [50% Acceptance Rate] ★ Distinguished Long Talk

P2. Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations

Kanit Wongsuphasawat, Dominik Moritz, Anushka Anand, Jock Mackinlay, Bill Howe, Jeffrey Heer. IEEE Trans. Visualization & Computer Graphics (InfoVis) 2015. [22% Acceptance Rate] ★ 1 of 4 Top TVCG papers invited to SIGGRAPH'16

P1. Declarative Interaction Design for Data Visualization.

Arvind Satyanarayan, Kanit Wongsuphasawat, Jeffrey Heer. ACM User Interface Software and Technology 2014. [22% Acceptance Rate]

EXTENDED ABSTRACTS & TECHNICAL REPORTS

T2. You Can't Force Calm: Designing and Evaluating Respiratory Regulating Interfaces for Calming Technology.

Kanit Wongsuphasawat, Alex Gamburg, Neema Moraveji. ACM User Interface Software and Technology (UIST) 2012.

T1. Plasma-Z: Team Description for Robocup: Small Size League.

Chitchanok Chuengsatiansup, Thiraphat Charoensriphngsa, Kanit Wongsuphasawat, Komsit Rattana, Pawawat Duongsodsri, Aphilux Buathong, Kittipat Wejwittayaklung, Manop Wongsaisuwan, Wittaya Wannasuphoprasit. International Robocup 2009 ★3rd Place

PATENTS

P1. Systems and Methods for Ranking Data Visualizations.

Anushka Anand, Jock Mackinlay, Kanit Wongsuphasawat. US Patent 9,613,102 (2017)

EMPLOYMENT

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

2013-Present

- Lead the design, development, and evaluation of Voyager, a recommendation-powered visualization tool for exploratory data analysis and the CompassQL visualization recommender engine – manage a team of 5 research assistants (★ Won Knight Prototype Grant, adopted by Jupyter data science community) – http://github.com/vega/voyager & http://github.com/vega/compassql
- Co-lead the design & development of the Vega-Lite high-level grammar for interactive visualizations-manage a team of 7 research assistants (30k NPM downloads/month, wrapped in Python as Altair, shipped with JupyterLab, used at leading tech companies including Apple, Google, Microsoft, Netflix, and Twitter) – http://vega.github.io/vega-lite

- Co-designed declarative interaction model for the Vega visualization grammar – http://vega.github.io/vega	
- Conduct interviews with data scientists to understand current practices and difficulties in exploratory data anal	lysis
Google Inc. – Software Engineering Intern (Big Picture Group, Google Research) - Led the design & development of TensorFlow Graph Visualizer, a tool to visualize dataflow graphs of deep lead TensorFlow (with Dr. Martin Wattenberg, Dr. Fernanda Viégas and Google Brain) – Shipped with Google's TensorFlow TensorBoard – https://www.tensorflow.org/get_started/graph_viz	
Trifacta Inc. – Software Engineering Intern - Designed & prototyped intelligent user interfaces for data cleaning and transformations	2014
Tableau Software Inc. – Research Intern (Visual Analysis Team) - Designed & prototyped visualization recommender system (with Dr. Jock Mackinlay & Dr. Anushka Anand) ★ U	2013 S Patented
HCI Group, Stanford University – Graduate Researcher - Research on peer assessment system for massive online classroom (with Dr. Scott Klemmer & Dr. Chinmay Kulka	2013 (arni)
Venture Lab, Stanford University – Graduate Researcher & UX Lead - Led initial user experience design for Venture-lab, a MOOC platform (spun off as NovoEd)	2012-2013
Google Inc Software Engineering Intern (HCI Group, Google Research) - Researched & developed a mobile social software prototype (with Dr. Elin Pedersen and Dr. Bay-Wei Chang)	2012
Thomson Reuters Software - Associate Software Engineer - Led UI Design for Alerting and Monitoring System of Thomson Reuters Market Data System	2010-2011
Singha Corporation (Thailand) - Management Trainee Intern - Organized regional marketing campaign to increase sales & cross-functional management and business trainin	2010
Thomson Reuters Software - Software Engineering Intern - Developed test cases management system for data access control product	2009
HONORS & AWARDS	
IEEE TVCG VAST Best Paper Award (TensorFlow Graph Visualizer)	2017
ACM SIGCHI Best Paper Honorable Mention (GraphScape)	2017
IEEE TVCG InfoVis Best Paper Award (Vega-Lite)	2016
Invited to SIGGRAPH as 1 of 4 Top TVCG Paper (Voyager)	2016
Fulbright Fellowship (for studies at Stanford)	2011-2013
Valedictorian Gold Medal Award – Chulalongkorn Faculty of Engineering	2010
His Majesty the King Bhumibol Undergraduate Scholarship – Chulalongkorn Faculty of Engineering	2010
Winner of Thailand National Software Contest (University Level)	2010
3rd Place of Small-size League Soccer Robot at the International Robocup	2009
HRH the Royal Crown Prince of Thailand Top Engineering Student Medal	2009
Chulalongkorn University President Awards for Outstanding Students	2007, 2008, 2009
Runner-Up – Thailand ICT Award (University Level)	2008
3rd Place High Performance Award –Accenture Thailand Academic Exhibition	2008
Honorable Mention – ACM ICPC Regional Contest	2008
Winner - SAMART Innovation Award (A premier mobile software contest in Thailand)	2007
Bronze Medalist – Thailand Olympiad in Informatics	2004
INVITED TALKS	
Vega-Lite: A Grammar of Interactive Graphics Microsoft Research, Seattle, WA Apple Inc. / Turi, Seattle, WA OpenVisConf, Boston, MA	Nov 2017 Aug 2017 Apr 2017
Vega-Lite: A Declarative Format for Data Visualization PlotCon, New York City, NY	Nov 2016

Usus (Teleconference) Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations SIGGRAPH 2016, Anahelm, C.A Tableau Inc., Seattle, WA Jan 2016 Visualization Tools & Visualization Recommender Systems MFEC Corporation, Bangkok, Thailand Dec 2016 Brief Introduction to Human-Computer Interaction Chulaiongkom University, Bangkok, Thailand Jun 2014 MENTORING Vega-Lite Ayush Saraf 85 Computer Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyager Lite Ayush Saraf 85 Computer Science & Engineering'16 (Now software engineer at Google) Voulying Lin 85 Computer Science & Engineering'16 (Now software engineer at Eacebook) 2015-2016 Voulying Lin 85 Computer Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyanar (20e* Lite Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyanar (20e* Lite Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyanar (20e* Lite Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyanar (20e* Lite Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyanar (20e* Lite Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyager(CompassQL Rilley Chang Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyager(CompassQL Rilley Chang Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyager(CompassQL Rilley Chang Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyager(CompassQL Rilley Chang Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyager(CompassQL Rilley Chang Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyager(CompassQL Rilley Chang Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyager(CompassQL Rilley Chang Science & Engineering'18 (Johining Twitter as Associate Product Manager) Voyager(CompassQL Rilley Chang Science & Engineering'18 (Johining Twitter	Vega-Lite Tutorials	
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Two Highlights of IEEE's 2015 VisWeek Conference Perceptual Edge's Visual Business Intelligence Voyager wants to help journalists find and illustrate data stories Journalism.co.uk Higher-Level Tools for Interactive Data Visualization Intel Science & Technology Center for Big Data Blog	Nov 2015 Aug 2015 Jun 2015
TensorFlow/TensorBoard Graph Visualizer	
A Snapshot of Current Trends in Visualization 2018 IEEE Computing Now	Feb 2018
Review of IEEE VIS'17 with Jessica Hullman and Robert Kosara Data Stories Podcast Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow Hacker News (Front Page) Visualizing your model using TensorBoard Toward Data Science Visualizing convolutional neural networks O'Reilly Idea Introduction to TensorFlow Hack a Day The Good, Bad, & Ugly of TensorFlow Indico	Nov 2017 Oct 2017 Sep 2017 Sep 2017 Apr 2017 May 2016
TEACHING	
University of Washington Course Assistant: CSE442 Data Visualization (for undergraduate students) Course Assistant: CSE512 Data Visualization (for PhD students) Mentored and graded student projects / developed D3 & web development workshops (https://github.com/uwdata/o	2017 2014 13-tutorials)
Chulalongkorn University Course Assistant: Entrepreneurship Course (Chulalongkorn Business School) Mentor and grade student projects.	2010
Course Assistant: Discrete Mathematics (Computer Engineering Department)	2009

ACTIVITIES & SERVICES

Publication Reviewer – IEEE InfoVis 2014-2017, IEEE VAST 2016-2017, ACM SIGCHI 2014-18, ACM UIST 2016

Student Volunteer – ACM UIST 2012

Develop problem sets and online tutorials

Admission Committee – UW CSE PhD Student Admission 2015

Seminar Organizer – Interactive Systems Seminar 2014

Club President – Chulalongkorn IEEE Computer Student Society 2008-2009

Author – Solution guide for problem sets in Chulalongkorn Calculus I & II Text Book

Designer – UW Interactive Data Lab logo, business cards, poster themes

Member – Association for Computing Machinery (ACM, 2012-Present), UW Interactive Data Lab (2013-Present), UW Design-Use-Build group (2013-Present), Business Association of Stanford Entrepreneurial Students (BASES, 2011-2013), Stanford Design Initiative (2012-2013), Thai Young Philanthropists Network (2010), Capitol Toastmasters Club of Toastmaster International (2010), Chulalongkorn Business Plan Club (2010), Chulalongkorn Engineering Innovator's Club (2009-2011), Chulalongkorn Photographer's club (2009-2011)