KANIT (HAM) WONGSUPHASAWAT (CURRICULUM VITAE)

kanitw@gmail.com @kanitw More information and demos at http://kanitw.github.io Last Updated Oct 30, 2018

EDUCATION

University of Washington (2018) MS & PhD Computer Science & Engineering

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

Stanford University (2013)

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)

EMPLOYMENT

Apple Inc. – Research Scientist

2018-Present

- Research on visualization and interactive systems 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 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-led 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, Twitter and Uber; used for teaching at top universities including Stanford, CMU, UMD, and UW) – http://vega.github.io/vega-lite
- Co-designed declarative interaction model for the Vega visualization grammar http://vega.github.io/vega
- 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 in TensorFlow (with Dr. Martin Wattenberg, Dr. Fernanda Viégas and Google Brain) – Shipped with Google's TensorFlow library as a part of TensorBoard – https://www.tensorflow.org/get_started/graph_viz

Trifacta Inc. - Software Engineering Intern

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

HCI Group, Stanford University – Graduate Researcher

2013

- Research on peer assessment system for massive online classroom (with Dr. Scott Klemmer & Dr. Chinmay Kulkarni)

Venture Lab, Stanford University - Graduate Researcher & UX Lead

2012-2013

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

Google Inc. - Software Engineering Intern (HCI Group, Google Research)

2012

- Researched & developed a mobile social software prototype (with Dr. Elin Pedersen and Dr. Bay-Wei Chang)

Thomson Reuters Software - Associate Software Engineer

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 & cross-functional management and business training

Thomson Reuters Software - Software Engineering Intern

2009

- Developed test cases management system for data access control product

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

T3. Visualizing Attention in Sequence-to-Sequence Summarization Models.

Halden Lin, Kanit Wongsuphasawat, Tongshuang Wu, Yejin Choi, Jeffrey Heer. IEEE Trans. Visualization & Computer Graphics (VAST) 2018

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)

HONORS & AWARDS

IFFE TUSC VAST D. I.D. A. LUT. FL. C. L.V. L.	2017
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

Augmenting \	Visualization '	Tools with Au	itomated Design	& Recommendation
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MIT Human-Computer Interaction Seminar, Cambridge, MA	Nov 2018
Uber Visualization Nights, San Francisco, CA	Apr 2018
Databricks, San Francisco, CA	Mar 2018
Apple (Turi / Machine Learning Group), Seattle, WA	Mar 2018
Google (People+Al Research Initiative), Cambridge, MA	Mar 2018
Microsoft (PowerBl Team), Seattle, WA	Mar 2018

Microsoft Research, Seattle, WA https://www.microsoft.com/en-us/research/video/augmenting-visualization-tools-with-automated-design-reco	Mar 2018 ommendation/
Tableau Software, Seattle, WA	Feb 2018
Visualizing Dataflow Graphs of Deep Learning Models in TensorFlow IEEE VAST 2017, Phoenix, AZ	Oct 2017
Voyager 2: Augmenting Visual Analysis with Partial View Specifications ACM SIGCHI (Human Factor in Computer Systems), Denver, CO	May 2017
Vega-Lite: A Grammar of Interactive Graphics Electrochemical Society Hackweek, Seattle, WA Microsoft Research, Seattle, WA Apple Inc., Seattle, WA OpenVisConf, Boston, MA	May 2018 Nov 2017 Aug 2017 Apr 2017
Vega-Lite: A Declarative Format for Data Visualization PlotCon, New York City, NY	Nov 2016
Towards A General-Purpose Query Language for Visualization Recommendation HILDA at ACM SIGMOD (Workshop on Human-In-The-Loop Data Analytics)	June 2016
Vega-Lite Tutorials UC Davis (Teleconference)	May 2016
Voyager: Exploratory Analysis via Faceted Browsing of Visualization Recommendations SIGGRAPH 2016, Anaheim, CA Tableau Software, Seattle, WA IEEE InfoVis 2015	Jul 2016 Jan 2016 Nov 2015
Visualization Tools & Visualization Recommender Systems MFEC Corporation, Bangkok, Thailand Chulalongkorn University, Bangkok, Thailand	Dec 2016 Dec 2016
Brief Introduction to Human-Computer Interaction Chulalongkorn University, Bangkok, Thailand	Jun 2014
MENTORING	
Vega-Lite	
Ayush Saraf BS Computer Science & Engineering'18 Youying Lin BS Computer Science & Engineering'16 (Now software engineer at Google) Yuhan "Zoe" Lu BS Computer Science & Engineering'17 (Now software engineer at Facebook) Will Strimling BS Computer Science & Engineering'18 (Joining Twitter as Associate Product Manager) Chanwut (Mick) Kittivorawong BS Computer Science & Engineering'20 Sira Horradarn BS Computer Science & Engineering'18 Swojit Mohapatra BS Computer Science & Engineering'18 Souvik Sen Google Summer of Code'18	2015-2016 2015-2016 2015-2017 2015-2018 2017-2018 2017-2018 2017-2018
Voyager/CompassQL	
Riley Chang BS Computer Science & Engineering '18 Zening Qu MS Human-Centered Design & Engineering '16 (Now PhD Student at UW) Felix Ouk BS Informatics'18 Halden Lin BS Computer Science & Engineering'19 Shaheen Sharifian BS Informatics'18 (Now software Engineer at Amazon) Alan Banh BS Informatics'18 Flon Chan BS Informatics'18	2016 2016-2018 2017-2018 2017-2018 2017-2018 2017-2018
Vega-Lite & Voyager/CompassQL	
Matthew Chun BS Computer Science & Engineering'18 Akshat Shrivastava BS Computer Science & Engineering'18 Lingyue (Cynthia) Zhang BS Computer Science & Engineering'18	2016-2018 2017-2018 2017-2018

SELECTED COVERAGE

Vega-Lite & Altair

Data visualization tools drive interactivity and reproducibility in online publishing Nature Jan 2018 Visualizations Reach a New Height (Literally) Qlik Branch Jul 2017 PyCon 2017 Keynote: The Python Visualization Landscape (by Jake VanderPlas) May 2017 Trends in Data Visualization LandManager May 2017 OpenNiscon 2017 Keynote: The Python Visualization Landscape (by Jake VanderPlas) Apr 2017 A High-level Language for Interactive Data Visualization liEEE Computer Society Apr 2017 A Snapshot of Current Trends in Visualization 2017 IEEE Computing Now Feb 2017 Highlights from IEEE UIS'16 with Jessica Hullman and Robert Kosara Data Stories Podcast Nov 2016 Best of The Visualization Web Visualization Data Oct 2016 11 (Papers + Talks) Highlights from IEEE VIS'16 Fell in Love With Data Oct 2016 A Dramatic Tour through Python's Data Visualization Landscape Regress to Impress Oct 2016 A Dramatic Tour through Python's Data Visualization Landscape Regress to Impress Oct 2016 Vega-Lite for Quick Online Charts Flowing Data Poct 2017 Enabling data science for the majority O'Reilly Idea Oct 2017 Enabling data science for the majority O'Reilly Idea Oct 2017 Voyager TensorFlow The Sorb Soard Graph Visualizatio	regulate a Attail	
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A Dramatic Tour through Python's Data Visualization Landscape Regress to Impress Introduction to Data Visualization with Altair Practical Business Python Vogager Enabling data science for the majority O'Reilly Idea Cties Podcast Two Highlights of IEEE's 2015 VisWeek Conference Perceptual Edge's Visual Business Intelligence Nov 2015 Woyager 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 Hereber Trends in Visualization 2018 IEEE Computing Now 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 your model using TensorBoard Toward Data Science Visualizing convolutional neural networks O'Reilly Idea Neroewage Aga, & Ugly of TensorFlow Hack a Day The Good, Bad, & Ugly of TensorFlow Indico TEACHING University of Washington Course Assistant: CSE442 Data Visualization (for undergraduate students) Course Assistant: CSE512 Data Visualization (for PhD students) Course Assistant: CSE512 Data Visualization (for PhD students) Course Assistant: Enterpreneurship Course (Chulalongkorn Business School) Mentor and grade student projects.		
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ACTIVITIES & SERVICES

Publication Reviewer – IEEE InfoVis 2014-18, IEEE VAST 2016-18, IEEE SciVis 2018, ACM SIGCHI 2014-19, ACM UIST 2016-18,

Program Committee – ACM IUI 2019, VisxAl at IEEE VIS 2018

Student Volunteer – ACM UIST 2012

Visualizatoin Illustrator – "Making Data Visual", a book by Danyel Fisher and Miriah Meyer

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, 2012-2018), UW Interactive Data Lab (2013-2018), UW Design-Use-Build group (2013-2018), 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)

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 intelligent systems.