

Tanyoung Kim

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SKILLS AND ABILITIES

Data Visualization Design and Development

- Front-end Engineering: D3/JavaScript, React/Redux, HTML5, CSS, GraphQL
- Interaction and visual design: Adobe Creative Suite, Sketch, InVision
- Data analytics: SQL, Python and R for data cleaning and building pipelines

User Experience Design and Human-Computer Interaction

- Design for diverse screens: wireframes, visual design, interaction design, user journey
- User Research: personas, interviews, focus-groups, usability testing, survey design

EDUCATION

Georgia Institute of Technology, Atlanta GA August 2008 – May 2013
Ph.D. Digital Media (Minor in Human-Centered Computing)

Dissertation title: Coded visualization: the rhetoric and aesthetics of data-based cultural interface

KAIST, Daejeon, Korea March 1998 – May 2004
B.S. & M.S. Industrial Design

Simon Fraser University, Surrey, BC, Canada September 2004 – August 2005
Graduate Exchange Student at School of Interactive Arts and Technology

PROFESSIONAL EXPERIENCE

Data Visualization Designer October 2017 – Present
Facebook, Menlo Park, CA

- Led transparency.facebook.com data visualization and front-end engineering, involved in site UX Design
- Built internal tools with highly customized data visualizations covering UX design, data schema design, SQL queries for pipelines, and web development with Hack/React/GraphQL
- Built data-based investigation tools and storytelling visualizations for issues related to law enforcement, security, and compliance

Senior Design Prototyper November 2016 – October 2017
Yahoo! Inc, Sunnyvale, CA

- Led front-end engineering and UX design of internal data discovery tools
- Built exploratory data analytics and visualization tools with membership data
- Built UI style guide and design languages for data-rich applications

Senior Data Visualization Scientist June 2013 – November 2016
Nokia Technologies, Sunnyvale, CA

- Led data visualization design, web-app development, and testing of personal activity, sleep, and location data
- Led dashboard design and front-end engineering for hardware testing and quality assurance
- Led product design for mobile apps for quality assurance professionals

Research Intern July 2010 – December 2010
Nokia Research Center, Lausanne, Switzerland

- Created data visualization of socio-geographical-temporal data (+200 mobile phone users)
- Worked on user experience design of location-based mobile applications

Interaction Designer & User Researcher

September 2005 – July 2008

NHN Corporation, Seongnam, Gyeonggi-do, Korea

- Outstanding performance award (2007, annual awards granted to less than 1% of employees)
- Led game generation software design including game logic design and UX
- Led game localization research including focus groups with casual gamers
- Led information architecture and interaction design for online donation site
- Worked in Mountain View, CA (2006) and Beijing, China (2007)

ACADEMIC EXPERIENCE

Georgia Institute of Technology

August 2008 – May 2013

Instructor

- Undergraduate level design core course of Computational Media major
- LMC3705 Principles of Information Design (spring 2013), LMC2720 Principles of Visual Design (spring 2010 – fall 2012),
- designed curriculum, gave lectures on theories and techniques, created hands-on assignments, and led critique sessions

Teaching Assistant, Lab Instructor

- A graduate level core course, Digital Media program
- LMC6311 visual culture and design (fall 2009)
- Gave lectures on graphic software, graphic/web/interaction design

Graduate Research Assistant

- Inclusive indoor play project: interactive contents design for children's educational toys (summer 2008, with Prof. Abir Mullick, Department of Industrial Design)
- Digital conservation project: information visualization of coral reefs ecosystem for research collaboration and public education (fall 2008 – spring 2009, with Prof. Brian Magerko, Digital Media program)

Simon Fraser University

January 2005 – April 2005

Co-Instructor, Teaching Assistant

- Undergraduate level core course, School of Interactive Arts and Technology
- IAT101 new media images (spring 2005)
- Gave lectures on interactive design and video editing, technically supported students' projects

KAIST

March 2002 – August 2004

Graduate Research Assistant

- Participated in projects of ubiquitous computing service design, database design for icons, online education site design and development (Dept. of Industrial Design)

PUBLICATIONS

Conference Proceedings and Workshops

- DiSalvo, C., Lukens, J., Lodato, T., Jenkins, T., and Kim, T. (2014) Making Public Things: How HCI Design Can Express Matters of Concern. *In Proceedings of Human Factors in Computing Systems Conference (CHI)*, Honorable Mention.
- Kim, T. and DiSalvo, C. (2012) Visualization of the Public's Opinion on Politically Influential Tweets. *Social Media Visualization Workshop at ICWSM 2012*.
- Kim, T., Blom, J., and Stasko, J. (2011) Exploring Complex Mobile Life through Interactive Visualizations. *EuroVA Workshop at EuroVis 2011*.
- Kim, T., Hong, H., and Magerko, B. (2010) Design Requirements for Ambient Display that Supports Sustainable Lifestyle. *In Proceedings of Designing Interactive Systems Conference*.
- Kim, T., and DiSalvo, C. (2010) Speculative Visualization: A New Rhetoric for Communicating Public Concerns. *In Proceedings of Design Research Society (DRS) International Conference*.

- Kim, T., Hong, H., and Magerko, B. (2010) Designing for Persuasion: Toward Ambient Eco-Visualization for Awareness. *In Proceedings of the 5th Int'l Conference on Persuasive Technology.*
- Kim, T., Ahn, S., and Lee, S. (2007) Being Mondrian: the Public Installation for Interactive Drawing with Tangible Interface. *In Proceedings of Designing for User Experience.*
- Kim, T. and Lim, C. (2004) Embodiment of Multi-sensory Feedback for Better User Experience on Websites - With Emphasis on the Evaluation of Tactile Feedback Utilizing Tactile Feedback Mouse. *In Proceedings of Korean HCI Conference.*
- Kim, T. and Lim, C. (2004) Application of Tactile Feedback on Web Interface Design. *In Proceedings of Korean Society of Design Sciences Conference.*

Book Chapters

- Jung, H., Kim, T., Yang, Y., Carli, L., Carnesecchi, M., Rizzo, A., and Gurrin, C. (to appear in 2013). Aesthetics in Data Visualization: Case Studies and Design Issues. In Huang, M. & Huang, W. (Eds.), *Innovative Approaches of Data Visualization and Visual Analytics.* IGI Global.

Conference Posters

- Kim, T. (2017) Shared Fans between Sports Teams. *IEEE InfoVis.*
- Kim, T. (2015) Comparative Visualization of Personal Beer Taste. *IEEE InfoVis.*
- Kim, T. (2014) Visual Exploration of Personal Commuting Behaviors. *IEEE InfoVis.*
- Kim, T., Jeong, H., Chew, Y., Bonner, M., and Stasko, J. (2009) Interactive Visualization of Eco-system for Public Education. *IEEE InfoVis.*
- Kim, T., Hong, H., and Magerko, B. (2009) Social Visualization for Micro-blogging Analysis. *IEEE InfoVis.*
- Kim, T., Hong, H., and Magerko, B. (2009) Corallog: Use-Aware Visualization Connecting Human Micro-Activities to Environmental Change. *Extended Abstract of CHI.*
- Kim, T., Kim, C., Park, J., Lee, Y., and Lee, J. (2007) Designing New Casual Game Experiences: Competition and Social Interaction Converging Website and Games. *International Association of Societies of Design Research.*

PRESENTATIONS

- Fundamentals of Data Visualization. (2019). Facebook Analytics Group Tech Chat.
- Designing Data-based Cultural Interface for Social Impact. (2018). FBC Toronto.
- Data Visualization 101. (2016). Tech Chats at Nokia Technologies.
- Designing Visualizations with Processing. (2012) at the Workshop on Aesthetic Data Visualization at NordiCHI Conference.
- Visualization as a Cultural Interface for Civic Engagement: Design Project for the Public's Opinion on Political Tweets. (2012) at Doctoral Colloquium at DIS.
- Persuasive Visualization for Civic Engagement. (2010) at Doctoral Colloquium at the Conference on Persuasive Technology.
- Design Issues on the localization of Multiplayer Casual Game Interface. (2007) at NHN Conference.

PROFESSIONAL SERVICES

Workshop Co-organizer

- Aesthetic Data Visualization: Tools & Challenges for Interaction Designers at NordiCHI 2012

Reviewer

- IEEE InfoVis 2013, 2014
- ACM Conference on Human Factors in Computing Systems (CHI) 2016, 2015, 2012, 2010
- Nordic Conference on Human-Computer Interaction (NordiCHI) 2012, 2010
- The European Conference on Information Systems (ECIS) 2011
- ACM Creativity & Cognition (C&C) 2009