NAM WOOK KIM

33 Oxford St. MD142, Cambridge, MA 02138   namwkim@seas.harvard.edu | http://www.namwkim.org

EDUCATION

Harvard University   Cambridge, MA
Ph.D. candidate in Computer Science   Sep.2014 - Present
Advisors: Hanspeter Pfister & Krzysztof Z. Gajos

Stanford University   Stanford, CA
M.S. in Computer Science (Specialization: Information Visualization)   Jun.2010
Advisor: Jeffrey M. Heer
Distinction in Research

Stony Brook University   Stony Brook, NY
B.S. in Computer Science, Applied Math, and Mathematics   Jun.2008
Advisor: David X. Gu
Honors Program (Computer Graphics). Academic Excellence Award

Illinois Institute of Technology   Sep.2004-Jan.2005
Study Abroad Program

Ajou University   Suwon, Korea
Advisor: Jungju Choi   Jan.2006
B.S. in Digital Media, and Information and Computer Engineering
Presidential award for academic excellence (declined)

RESEARCH INTERESTS

Data Visualization, Human-Computer Interaction, Data Science, Data-Driven Storytelling, Creativity Support Tools

EMPLOYMENT

EPIC group, Microsoft Research   Redmond, WA
Research Intern; Mentors: Nathalie Riche, Matthew Brehmer, Michel Pahud, Ken Hinckley   Apr.2017 - Jul.2017

Storytelling Group, Disney Research Zürich   Zürich, Switzerland
Research Intern; Mentors: Sasha Schriber and Markus Gross   May.2016 - Oct.2016

Creative Technology Labs, Adobe Research.   San Francisco, CA
Research Intern; Mentors: Zhicheng Liu, Mira Dontcheva, Wilmot Li, and Jovan Popović   May.2015 - Aug.2015

Visual Computing Group, Harvard SEAS   Cambridge, MA
Research Assistant; Mentor: Hanspeter Pfister   Sep.2014 - Present

Project BudgetWiser Group, KAIST BTM   Daejeon, Korea
Research Associate; Mentors: Jihee Kim & Juho Kim   Jun.2014 - Aug.2014

Data Intelligence Group, LG Electronics   Seoul, Korea

Research Engineer   Sep.2013 - May.2014

Advanced Technology & Defence Division, Samsung Techwin   Bundang, Korea
Research Engineer (Military Duty)   Jul.2010 - Aug.2013

* Techwin is now a subsidiary of Hanwha Group.

Visualization Group, Stanford   Stanford, CA
Research Assistant; Mentors: Jeffrey M. Heer & Stuart K. Card.   Sep.2010 - Jun.2010

Center for Integrated Facility Engineering, Stanford   Stanford, CA
Research Assistant; Mentor: Reid Senescu.   Sep.2010 - Jun.2010

Robert Crown Law Library, Stanford   Stanford, CA
Student Assistant   Sep.2008 - Sep.2009

Arcade Game Division, TLC Industries   Chicago, IL
Software Intern   Jan.2005 - Feb.2005

PUBLICATION

Journal Papers

[j.6]   Quality Metrics for Information Visualization
        Michael Behrisch, Michael Blumenschein, **Nam Wook Kim**, Alexandra Diehl, Lin Shao, Mennatallah El-Assady,
        Johannes Fuchs, Daniel Seebacher, Ulrik Brandes, Hanspeter Pfister, Daniel Weiskopf, Daniel A. Keim
        Computer Graphics Forum, 2018 (EuroVis'18)

[j.5]   BubbleView: an Alternative to Eye-tracking for Crowdsourcing Image Importance
        Nam Wook Kim*, Zoya Bylinskii*, Michelle A. Borkin, Krzysztof Z. Gajos, Aude Oliva, Fredo Durand, Hanspeter
        Pfister
        ACM Transactions on Computer-Human Interaction (TOCHI), 2017

[j.4]   Visualizing Nonlinear Narratives with Story Curves
        Nam Wook Kim, Benjamin Bach, Hyejin Im, Sasha Schriber, Markus Gross, Hanspeter Pfister
        IEEE Transactions on Visualization and Computer Graphics (InfoVis'17), 2018
        (23% acceptance rate, 10 pages)

[j.3]   Data-Driven Guides: Supporting Expressive Design for Information Graphics
        Nam Wook Kim, Eston Schweickart, Zhicheng Liu, Mira Dontcheva, Wilmot Li, Jovan Popovic, Hanspeter Pfister.
        IEEE Transactions on Visualization and Computer Graphics (InfoVis'16), 2017
        (23% acceptance rate, 10 pages)

[j.2]   Beyond Memorability: Visualization Recognition and Recall
        Michelle A. Borkin*, Zoya Bylinskii*, **Nam Wook Kim**, Constance May Bainbridge, Chelsea S. Yeh, Daniel
        Borkin, Hanspeter Pfister, and Aude Oliva
        IEEE Transactions on Visualization and Computer Graphics (InfoVis'15), 2016
        (22% acceptance rate, 10 pages)

[j.1]   Accurate Segmentation of Land Regions in Historical Cadastral Maps
        Nam Wook Kim, Jung Jin Lee, Hyungmin Lee, Jinwook Seo
        Journal of Visual Communication and Image Representation, 2014

Conference Papers

[c.6] Learning Visual Importance for Graphic Designs and Data Visualizations
Zoya Bylinskii, **Nam Wook Kim**, Peter O'Donovan, Sami Alsheikh, Spandan Madan, Hanspeter Pfister, Fredo Durand, Bryan Russell, Aaron Hertzmann
UIST 2017: ACM Symposium on User Interface Software and Technology
(22.5% acceptance rate, 13 pages)

[c.5] BudgetMap: Engaging Taxpayers in the Issue-Driven Classification of a Government Budget
Nam Wook Kim, Jonghyuk Jung, Eun-Young Ko, Songyi Han, Chang Won Lee, Juho Kim, and Jihee Kim
CSCW 2016: ACM Conference on Computer-Supported Cooperative Work and Social Computing
(25% acceptance rate, 12 pages, with revise-and-resubmit cycle)

[c.4] Factful: Engaging Taxpayers in the Public Discussion of a Government Budget
Juho Kim, Eun-Young Ko, Jonghyuk Jung, Chang Won Lee, **Nam Wook Kim**, Jihee Kim
CHI 2015: ACM Conference on Human Factors in Computing Systems
Honorable Mention Award (top 5%)
(23% acceptance rate, 10 pages)

[c.3] JigsawMap: Connecting the Past to the Future by Mapping Historical Textual Cadasters
Hyungmin Lee, Sooyun Lee, **Nam Wook Kim**, Jinwook Seo
CHI 2012: ACM Conference on Human Factors in Computing Systems
(23% acceptance rate, 10 pages)

[c.2] Social Visualization and Negotiation: Effects of Feedback Configuration and Status
Mike Nowak, Juho Kim, **Nam Wook Kim**, Clifford Nass
CSCW 2012: ACM Conference on Computer-Supported Cooperative Work and Social Computing
(40% acceptance rate, 10 pages, with revise-and-resubmit cycle)

[c.1] Tracing Genealogical Data with TimeNets
Nam Wook Kim, Stuart K. Card, Jeffrey Heer
AVI 2010: International Working Conference on Advanced Visual Interfaces
(20% acceptance rate, 8 pages)

Book Chapter

[b.1] Eye Fixation Metrics for Large Scale Evaluation and Comparison of Information Visualizations
Zoya Bylinskii, Michelle Borkin, **Nam Wook Kim**, Hanspeter Pfister, Aude Oliva
Book Chapter, Proceedings of Eye Tracking and Visualization (ETVIS 2015)

arXiv Papers

[a.1] Creative Community Demystified: A Statistical Overview of Behance
Nam Wook Kim
arXiv:1703.00800v1 [cs.SI] 2 Mar 2017

Posters, Demos, and Workshop Papers

[p.6] BudgetWiser: Gamification Design Opportunities in the Government Budget Domain
Nam Wook Kim, Jihee Kim, Juho Kim, Chang Won Lee, Eun-Young Ko, Jonghyuk Jung
CHI 2015 Workshop on Researching Gamification

[p.5] A Crowdsourced Alternative to Eye-tracking for Visualization Understanding
Nam Wook Kim, Zoya Bylinskii, Michelle A. Borkin, Aude Oliva, Krzysztof Z. Gajos, Hanspeter Pfister
CHI 2015 Extended Abstracts

[p.4]   BudgetMap: Issue-Driven Navigation for a Government Budget
        Nam Wook Kim, Chang Won Lee, Jonghyuk Jung, Eun-Young Ko, Juho Kim, Jihee Kim
        CHI 2015 Extended Abstracts

[p.3]   Recording Reusable and Guided Analytics From Interaction Histories
        Nam Wook Kim
        VAST 2013 Poster

[p.2]   Vehicle Instrument Panel Design for Cooperative Driving
        Nam Wook Kim, Ji Tae Hong, Dae Ok Lee
        ACHI 2013 Poster

[p.1]   Connecting the Past to the Future - Visualizing and Mapping Textural Land-books
        Hyungmin Lee, Sooyun Lee, **Nam Wook Kim**, and Jinwook Seo
        Microsoft Research Faculty Summit 2011 - DemoFest

AWARDS & HONORS

Siebel Scholars   2019
Siebel Foundation ($35K for one year)

Harvard GSC Grants for Mini-Courses   Nov. 2017
January@GSAS - Learning to Visualize: Surviving in the World of Data

Information is Beautiful Awards 2017   Oct.2017
Rising Star: Data-Driven Guides [j.3], Longlist: Story Curves: [j.5]

Honorable Mention Award   Oct.2017
UIST 2017, Among the top 5% of all submissions [c.6]

Finalist for Adobe Research Fellowship   Dec.2015
Adobe

Harvard Mind Brain Behavior Graduate Student Awards   Jun.2015
Travel expense to CHI 2015. ($2.6K)

Honorable Mention Award   Apr.2015
CHI 2015, Among the top 5% of all submissions [c.4]

The Kwanjeong Educational Foundation Fellowship   2014-2018
Kwanjeong Educational Foundation. ($30K per year, for 4 years)

Distinction in Research   2010
Stanford University

The Korean Honor Scholarship   2009
Embassy of the Republic of Korea ($1K)

Academic Excellence Award   2008
Stony Brook University

National Young Scholars Award   Sep.2006-Sep.2008
Korea Research Foundation ($20K per year, for 2 years)

URECA Summer Research Fellowship
Stony Brook University ($3K)

Jun.2007-Sep.2007

Stony Brook Computing Society ACM Grants
Stony Brook University ($300)

2007

URECA Small Grants
Stony Brook University ($300)

2007

Guwon Scholarship
The Guwon Scholarship Foundation ($1K)

2006

Chungsoo Scholarship
The Chungsoo Scholarship Foundation (Tuition covered for 3 semesters)

Mar.2005-Jul.2006

Ajou University Merit Scholarship
Ajou University (Tuition covered for 3 semesters)

Sep.2003-Dec.2004

TEACHING & MENTORING

Courses

‣ January @ GSAS: Learning to Visualize: Surviving in the World of Data
http://www.namwkim.org/datavis/

Jan.10-11, 2018

Teaching Assistant

‣ CS179 Design of Useful and Usable Interactive Systems, Harvard Univ.
Led a studio and coding lab sessions.

Spring 2018

‣ CS171 Visualization, Harvard Univ.
Led a studio and graded assignments.

Spring 2016

‣ CS328 Fundamentals of Computer Graphics, Stony Brook Univ.
Gave a lecture on normal mapping and graded assignments.

Spring 2008

Advising & Mentoring

‣ Andy Xu (Senior at Phillips Academy)

Summer 2018

‣ Alicia Wang (Senior at Troy High School)

Summer 2018

‣ Hyejin Im (Student at Tufts) - [j.4]

Fall 2017 - Present

Tutoring

‣ Bureau of Study Counsel Peer Tutor
CS 50 - Intro to Computer Science I

Fall 2017

INVITED TALKS

BubbleView: an Alternative to Eye-tracking for Crowdsourcing Image Importance

‣ InfoVis x Vision Science at IEEE VIS'17   Oct. 4, 2017

Visualizing Nonlinear Narratives with Story Curves

‣ DISGRAPH, Walt Disney Imagineering   Jun. 8, 2017

Beyond Exploration: Designing a Visualization for Communication

‣ Graphics Seminar Series, MIT   Apr. 12, 2017
‣ Pegasystems, Inc.   Apr. 13, 2017

Data-Driven Guides: Supporting Expressive Design for Information Graphics

‣ Boston Visualization Meetup, Bocoup   Dec. 8, 2016

TimeNets: Tracing Genealogical Data with TimeNets

‣ HCI Lab, Seoul National University   Jan. 4, 2011

SELECTED PRESS

Visualizing data | Best of the Visualization Web… October 2017 featuring Story Curves   Dec. 12, 2017
http://www.visualisingdata.com/2017/12/best-visualisation-web-october-2017/

Data-Driven Journalism | Data-driven guides (invited article)   Dec. 7, 2017
http://datadrivenjournalism.net/resources/data_driven_guides

FlowingData | Visualizing nonlinear stories   Oct. 9, 2017
http://flowingdata.com/2017/10/09/visualizing-nonlinear-stories/

Phys.org | Eye-tracking research reveals which types of visuals actually get the message across   Nov. 6, 2015
https://phys.org/news/2015-11-eye-tracking-reveals-visuals-message.html

Scientific American | *Understanding what makes a visualization memorable*   Nov. 3, 2015
http://www.storybench.org/understanding-what-makes-a-visualization-memorable/

MIT News | How to make better visualizations   Nov. 5, 2015
http://news.mit.edu/2015/how-make-better-infographic-visualizations-1105

Harvard SEAS News | *Making visualizations more memorable*   Nov. 5, 2015
https://www.seas.harvard.edu/news/2015/11/making-visualizations-more-memorable

ACADEMIC SERVICES

Reviewer - CHI 2015-18, VIS 2015-18, C&C 2015, CSCW 2015, EuroVis 2016-17, PacificVis 2018, TVCG Journal, INTERACT'17, IDC'17, Mobile CHI'17, UIST 17
Program Committee - IUI 2015 (Poster and Demo track), IUI 2019
Student Volunteer - VIS16, SIGCHI