

NAM WOOK KIM · CURRICULUM VITAE

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RESEARCH INTERESTS

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

EDUCATION

- 2014 - present **Harvard University**, Cambridge, MA
Ph.D. candidate in Computer Science
Advisors: Hanspeter Pfister & Krzysztof Z. Gajos
- 2010 **Stanford University**, Stanford, CA
M.S. in Computer Science (Specialization: Information Visualization)
Advisor: Jeffrey M. Heer
Distinction in Research
- 2008 **Stony Brook University**, Stony Brook, NY
B.S. in Computer Science, Applied Math, and Mathematics
Advisor: David X. Gu
Honors Program (Computer Graphics). Academic Excellence Award
- 2008 **Ajou University**, Suwon, Korea (Dual Degree Program)
B.S. in Digital Media, and Information & Computer Engineering
Advisor: Jungju Choi
Presidential Award for Academic Excellence (declined)
- 2005 **Illinois Institute of Technology**, Chicago, IL
Study Abroad Program

EMPLOYMENT

- 2014 - present **Harvard University**, Cambridge, MA
Graduate Researcher — Visual Computing group — Advisor: Hanspeter Pfister
- 04/2017 - 07/2017 **Microsoft Research**, Redmond, WA
Research Intern — EPIC group — Mentor: Nathalie Henrie Riche
- 05/2016 - 10/2016 **Disney Research**, Zürich, Switzerland
Research Intern — Storytelling group — Host: Markus Gross
- 05/2015 - 08/2015 **Adobe Research**, San Francisco, CA
Research Intern — Creative Technology Lab — Mentor: Zhicheng Liu
- 06/2014 - 08/2014 **KAIST**, Daejeon, Korea
Research Associate — Business and Technology Management
- 09/2013 - 05/2014 **LG Electronics**, Seoul, Korea
Research Engineer — Data Intelligence group
- 07/2010 - 08/2013 **Samsung Techwin**, Bundang, Korea
Research Engineer (Military Duty) — Advanced Technology & Defense Division
- 09/2009 - 06/2010 **Stanford University**, Stanford, CA
Research Assistant — Visualization Group — Advisors: Jeffrey Heer & Stuart Card
- 06/2009 - 09/2009 **Stanford University**, Stanford, CA
Research Assistant — Center for Integrated Facility Engineering

- 09/2008 - 09/2009 **Stanford University**, Stanford, CA
Library Assistant — Robert Crown Law Library
- 01/2005 - 02/2005 **TLC Industries**, Schaumburg, IL
Software Intern — Arcade Game Division,

AWARDS AND HONORS

- 2018 **Siebel Scholars**
Siebel Foundation (\$35,000 for one year)
- 2018 - 2019 **Harvard Graduate Student Council Grants for Mini-Courses**
January@GSAS - Learning to Visualize: Surviving in the World of Data (\$750 x 2)
- 2017 **Kantar Information is Beautiful Awards - Rising Star** 🏆
Data-Driven Guides [J.3] and Story Curves: [J.5] (\$250)
- 2017 **Honorable Mention Award** 🏆
UIST 2017, Among the top 5% of all submissions [C.6]
- 2015 **Finalist for Adobe Research Fellowship**
Adobe Research
- 2015 **Harvard Mind Brain Behavior Graduate Student Awards**
Travel expense to CHI 2015. (\$2,600)
- 2015 **Honorable Mention Award** 🏆
CHI 2015, Among the top 5% of all submissions [c.4]
- 2014 - 2018 **Kwanjeong Educational Foundation Scholarship**
Kwanjeong Educational Foundation. (\$30,000 per year, for 4 years)
- 2010 **Distinction in Research**
Stanford University
- 2009 **Korean Honor Scholarship**
Embassy of the Republic of Korea (\$1,000)
- 2008 **Academic Excellence Award**
Stony Brook University
- 2006 - 2008 **National Young Scholars Award**
Korea Research Foundation (\$20,000 per year, for 2 years)
- 2007 **URECA Summer Research Fellowship**
Stony Brook University (\$3,000)
- 2007 **Stony Brook Computing Society ACM Grants**
Stony Brook University (\$300)
- 2007 **URECA Small Grants**
Stony Brook University (\$300)
- 2006 **Guwon Scholarship**
The Guwon Scholarship Foundation (\$1,000)
- 2005 - 2006 **Chungsoo Scholarship**
The Chungsoo Scholarship Foundation (Tuition covered for 3 semesters)
- 2003 - 2004 **Merit-based Scholarships**
Ajou University (Tuition covered for 3 semesters)

PEER REVIEWED PUBLICATIONS

BOOK CHAPTERS

- 2017 B.1 Zoya Bylinskii, Michelle Borkin, **Nam Wook Kim**, Hanspeter Pfister, Aude Oliva. Eye Fixation Metrics for Large Scale Evaluation and Comparison of Information Visualizations. Proceedings of Eye Tracking and Visualization (ETVIS 2015), Springer Mathematics and Visualizations series.

JOURNAL PAPERS

- 2018 J.6 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. "Quality Metrics for Information Visualization." *Computer Graphics Forum (EuroVis'18)*.
- J.5 **Nam Wook Kim**, Benjamin Bach, Hyejin Im, Sasha Schriber, Markus Gross, Hanspeter Pfister. Visualizing Nonlinear Narratives with Story Curves. *IEEE Transactions on Visualization and Computer Graphics (InfoVis'17)*.
(23% acceptance rate, 10 pages)
- 2017 J.4 **Nam Wook Kim***, Zoya Bylinskii*, Michelle A. Borkin, Krzysztof Z. Gajos, Aude Oliva, Fredo Durand, Hanspeter Pfister. BubbleView: An Interface for Crowdsourcing Image Importance Maps and Tracking Visual Attention. *ACM Transactions on Computer-Human Interaction (TOCHI)*.
- J.3 **Nam Wook Kim**, Eston Schweickart, Zhicheng Liu, Mira Dontcheva, Wilmot Li, Jovan Popovic, Hanspeter Pfister. Data-Driven Guides: Supporting Expressive Design for Information Graphics. *IEEE Transactions on Visualization and Computer Graphics (InfoVis'16)*.
(23% acceptance rate, 10 pages)
- 2016 J.2 Michelle A. Borkin*, Zoya Bylinskii*, **Nam Wook Kim**, Constance May Bainbridge, Chelsea S. Yeh, Daniel Borkin, Hanspeter Pfister, and Aude Oliva. Beyond Memorability: Visualization Recognition and Recall. *IEEE Transactions on Visualization and Computer Graphics (InfoVis'15)*.
(22% acceptance rate, 10 pages)
- 2014 J.1 **Nam Wook Kim**, Jung Jin Lee, Hyungmin Lee, Jinwook Seo. Accurate Segmentation of Land Regions in Historical Cadastral Maps. *Journal of Visual Communication and Image Representation (JVCIR)*.

CONFERENCE PAPERS

- 2019 C.8 **Nam Wook Kim**, Nathalie Henry Riche, Benjamin Bach, Guanpeng Xu, Matthew Brehmer, Ken Hinckley, Michel Pahud, Haijun Xia, Michael McGuffin, Hanspeter Pfister. DataToon: Drawing Dynamic Network Comics With Pen + Touch Interaction. *ACM Conference on Human Factors in Computing Systems (CHI) – to appear*
- C.7 **Nam Wook Kim**, Hyejin Im, Nathalie Henry Riche, Alicia Wang, Krzysztof Z. Gajos, Hanspeter Pfister. DataSelfie: Empowering People to Design Personalized Visuals to Represent Their Data. *ACM Conference on Human Factors in Computing Systems (CHI) – to appear*
- 2017 C.6 Zoya Bylinskii, **Nam Wook Kim**, Peter O'Donovan, Sami Alsheikh, Spandan Madan, Hanspeter Pfister, Fredo Durand, Bryan Russell, Aaron Hertzmann. Learning Visual Importance for Graphic Designs and Data Visualizations. *ACM Symposium on User Interface Software and Technology (UIST)*
Honorable Mention Award (top 5%)
(22.5% acceptance rate, 13 pages)

- 2016 C.5 **Nam Wook Kim**, Jonghyuk Jung, Eun-Young Ko, Songyi Han, Chang Won Lee, Juho Kim, and Jihee Kim. BudgetMap: Engaging Taxpayers in the Issue-Driven Classification of a Government Budget. *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*.
(25% acceptance rate, 12 pages, with revise-and-resubmit cycle)
- 2015 C.4 Juho Kim, Eun-Young Ko, Jonghyuk Jung, Chang Won Lee, **Nam Wook Kim**, Jihee Kim. Factful: Engaging Taxpayers in the Public Discussion of a Government Budget. *ACM Conference on Human Factors in Computing Systems (CHI)*
Honorable Mention Award (top 5%)
(23% acceptance rate, 10 pages)
- 2012 C.3 Hyungmin Lee, Sooyun Lee, **Nam Wook Kim**, Jinwook Seo. JigsawMap: Connecting the Past to the Future by Mapping Historical Textual Cadasters. *ACM Conference on Human Factors in Computing Systems (CHI)*.
(23% acceptance rate, 10 pages)
- C.2 Mike Nowak, Juho Kim, **Nam Wook Kim**, Clifford Nass. Social Visualization and Negotiation: Effects of Feedback Configuration and Status. *ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*.
(40% acceptance rate, 10 pages, with revise-and-resubmit cycle)
- 2010 C.1 **Nam Wook Kim**, Stuart K. Card, Jeffrey Heer. Tracing Genealogical Data with TimeNets. *International Working Conference on Advanced Visual Interfaces (AVI)*.
(20% acceptance rate, 8 pages)

WORKSHOP PAPERS

- 2015 W.1 **Nam Wook Kim**, Jihee Kim, Juho Kim, Chang Won Lee, Eun-Young Ko, Jonghyuk Jung. BudgetWiser: Gamification Design Opportunities in the Government Budget Domain. *CHI 2015 Workshop on Researching Gamification*.

POSTER AND DEMO PAPERS

- 2018 P.4 **Nam Wook Kim**, Hyejin Im, Nathalie Henry Riche, Krzysztof Gajos, Hanspeter Pfister. Fostering Data Humanism with DataPortraits: Empowering People to Create a Personalized Visual Vocabulary. *IEEE VIS Poster*.
- 2015 P.3 **Nam Wook Kim**, Zoya Bylinskii, Michelle A. Borkin, Aude Oliva, Krzysztof Z. Gajos, Hanspeter Pfister. A Crowdsourced Alternative to Eye-tracking for Visualization Understanding. *CHI 2015 Extended Abstracts*.
- P.2 **Nam Wook Kim**, Chang Won Lee, Jonghyuk Jung, Eun-Young Ko, Juho Kim, Jihee Kim. BudgetMap: Issue-Driven Navigation for a Government Budget. *CHI 2015 Extended Abstracts*.
- 2013 P.1 **Nam Wook Kim**. Recording Reusable and Guided Analytics From Interaction Histories. *IEEE VIS Poster*.

UNPUBLISHED MANUSCRIPT

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

INVITED TALKS

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

10/2017 *InfoVis x Vision Science at IEEE VIS'17*

Visualizing Nonlinear Narratives with Story Curves

06/2017 *DISGRAPH, Walt Disney Imagineering*

Beyond Exploration: Designing a Visualization for Communication

04/2017 *Graphics Seminar Series, MIT*

04/2017 *Pegasystems, Inc.*

Data-Driven Guides: Supporting Expressive Design for Information Graphics

12/2016 Boston Visualization Meetup, Bocoup

TimeNets: Tracing Genealogical Data with TimeNets

01/2011 HCI Lab, Seoul National University

SELECTED PRESS

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

12/2017 **Data-Driven Journalism** | Data-driven guides (invited article)
http://datadrivenjournalism.net/resources/data_driven_guides

10/2017 **FlowingData** | Visualizing nonlinear stories
<http://flowingdata.com/2017/10/09/visualizing-nonlinear-stories/>

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

11/2015 **Scientific American** | Understanding what makes a visualization memorable
<http://www.storybench.org/understanding-what-makes-a-visualization-memorable/>

11/2015 **MIT News** | How to make better visualizations
<http://news.mit.edu/2015/how-make-better-infographic-visualizations-1105>

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

TEACHING

INSTRUCTOR

01/2019 January @ GSAS: Learning to Visualize: Surviving in the World of Data
<http://www.namwkim.org/datavis/>

01/2018 January @ GSAS: Learning to Visualize: Surviving in the World of Data
<http://www.namwkim.org/datavis/2018/>

TEACHING FELLOW

Fall 2018 Harvard CS171 Visualization

Spring 2018 Harvard CS179 Design of Useful and Usable Interactive Systems

Spring 2016 Harvard CS171 Visualization

Spring 2008 Stony Brook CS328 Fundamentals of Computer Graphics

MENTORING

GRADUATE STUDENTS

09/2017-09/2018 Hyejin Im, Tufts University [J.5, C.7]

HIGH SCHOOL STUDENTS

Summer 2018 Andy Xu, Senior at Phillips Academy [C.8]

Summer 2018 Alicia Wang [C.7]

SERVICE

PROGRAM COMMITTEE

2019 CHI Late-Breaking Work (ACM Conference on Human Factors in Computing Systems)

2019 UII (ACM International Conference on Intelligent User Interfaces)

2015 UII (ACM International Conference on Intelligent User Interfaces)

EXTERNAL PAPER REVIEWER

2015 - 2019 CHI (ACM Conference on Human Factors in Computing Systems)

2018 - 2019 PacificVis (IEEE Pacific Visualization Symposium)

2015 - 2018 VIS (IEEE Visualization Conference)

2015 - 2018 TVCG Journal (IEEE Transactions on Visualization and Computer Graphics)

2016 - 2017 EuroVis (Eurographics Conference on Visualization)

2017 UIST (ACM Symposium on User Interface Software and Technology)

2017 IDC (ACM Interaction Design and Children Conference)

2017 MobileCHI

2017 INTERACT

2015 CSCW (ACM Conference on Computer-Supported Cooperative Work and Social Computing)

2015 C&C (ACM Creativity & Cognition)

STUDENT VOLUNTEER

2017 SIGCHI Executive Committee Volunteer

2016 IEEE VIS

REFERENCE

Hanspeter Pfister

Wang Professor of Computer Science
Harvard University
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Nathalie Henry Riche

Researcher
Microsoft Research
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Gordon McKay Professor of Computer Science
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Zhicheng Liu

Research Scientist
Adobe Research
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