NAM WOOK KIM · CURRICULUM VITAE

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RESEARCH INTERESTS

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

EDUCATION

2019	**Harvard University**, Cambridge, MA Ph.D. 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

07/2019 -	**Boston College**, Chestnut Hill, MA Assistant Professor of Computer Science
09/2014 - 05/2019	**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,

GRANTS

2020	**Faculty Cohorts On Teaching for Inclusion and Social Justice** Center for Teaching Excellence, Boston College ($2,500)
2020	**Student Well-Being Grant** University Council on Teaching, Boston College ($1,530)

AWARDS AND HONORS

2019	**Special Recognition for Outstanding Reviews** CHI 2019
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

2020	J.7	Robert Krueger, Johanna Beyer, Won-Dong Jang, **Nam Wook Kim**, Artem Sokolov, Peter K. Sorger, Hanspeter Pfister. Facetto: Combining Unsupervised and Supervised Learning for Hierarchical Phenotype Analysis in Multi-Channel Image Data. *IEEE Transactions on Visualization and Computer Graphics (**VAST**'19)* *(24% acceptance rate)*
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)
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)
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)

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

2020 C.10 Nanxuan Zhao, **Nam Wook Kim**, Laura Mariah Herman, Hanspeter Pfister, Rynson Lau, Jose Echevarria, Zoya Bylinskii. ICONATE: Automatic Compound Icon Generation and Ideation. ACM Conference on Human Factors in Computing Systems (CHI), 2020.
(24% acceptance rate)

C.9 Anelise P Newman, Barry Anthony McNamara, Camilo Luciano Fosco, Yun Bin Zhang, Pat Sukhum, Matthew Tancik, **Nam Wook Kim**, Zoya Bylinskii. TurkEyes: A Web-Based Toolbox for Crowdsourcing Attention Data. *ACM Conference on Human Factors in Computing Systems (CHI), 2020.*
(24% acceptance rate)

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**)*
(23.8% acceptance rate)

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**)*
(23.8% acceptance rate)

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)

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 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 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

2020	P.5	Oleksii Sidorov, Marius Pedersen, Sumit Shekhar, **Nam Wook Kim**. Are All the Frames Equally Important? *CHI 2015 Extended Abstracts.*
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

	Human-Centered Design
03/2020	Department of Computer Science, UMass Boston
	From Exploration to Explanation: Designing for Visual Data Storytelling
12/2019	Department of Digital Media, Ajou University, Korea
	More Than Insights: Beyond Exploratory Data Visualization
02/2019	*Computer Science Department, Emory University*
02/2019	*Computer Science Department, Boston College*
02/2019	*College of Information Sciences and Technology, Penn State University*
01/2019	*Computer Science Department, KAIST, Korea*
	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

Spring 2020	CSCI2254 Web Application Development https://bcwebcourse.github.io/
Fall 2019	CSCI3390 Visualization https://bcviscourse.github.io/
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

02/2020 -	Jinhan Choi, Seoul National University
01/2020 -	Shahid Latif, University of Duisburg-Essen
09/2019 - 04/2020	Shakila Joyner, University of Vienna
09/2017-09/2018	Hyejin Im, Tufts University [J.5, C.7]

UNDERGRADUATE STUDENTS

Summar 2020	Rita LaPlante, Henry Bayly, Kyleigh Ramos, Amalia Riegelhuth, Jack McClelland, Ryan Chen, Annie Xie, Yuezhen Chen, Joshua Chang, Zheng Zhou, Alec Lobanov, Annie Hong
Spring 2020	Ashley Oh, Peixuan Huang

HIGH SCHOOL STUDENTS

Summar 2018	Andy Xu, Senior at Phillips Academy [C.8]
Summar 2018	Alicia Wang, Troy High School [C.7]

SERVICE

PROGRAM COMMITTEE

2020	CHI (ACM Conference on Human Factors in Computing Systems)
2020	VIS (IEEE Visualization Conference)
2020	CHI (ACM Conference on Human Factors in Computing Systems)
2020	CSCW (ACM Conference on Computer-Supported Cooperative Work and Social Computing)
2020	PacificVis (IEEE Pacific Visualization Symposium)
2020	IUI (ACM International Conference on Intelligent User Interfaces)
2019	CHI Late-Breaking Work (ACM Conference on Human Factors in Computing Systems)
2019	IUI (ACM International Conference on Intelligent User Interfaces)
2015	IUI (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)

JUDGING

2020	The Harvard College Undergraduate Research Association
2020	Boston College Hack The Heights

STUDENT VOLUNTEER

2017	SIGCHI Executive Committee Volunteer
2016	IEEE VIS