Jaemin Jo

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ACADEMIC POSITION	**Sungkyunkwan University**, Suwon, Korea, Republic of

· Assistant Professor   Sep 2020 – Present

EDUCATION   **Seoul National University**, Seoul, Korea, Republic of

· Ph.D. in Computer Science and Engineering   Mar 2014 – Feb 2020
   – Advisor: Prof. Jinwook Seo
   – Research Interests: Large-scale Data Visualization, Human-Computer Interaction.
· B.S. in Computer Science and Engineering   Mar 2009 – Feb 2014
   – Graduated with honors (Summa Cum Laude)

PUBLICATIONS & PATENTS

PEER-REVIEWED CONFERENCES

[C09] Sehi L'Yi, Jaemin Jo, and Jinwook Seo, "Comparative Layouts Revisited: Design Space, Guidelines, and Future Directions," *Visualization and Computer Graphics (TVCG, Proc. InfoVis)*, IEEE, 2020, to appear.

[C08] Hyung-Kwon Ko, Jaemin Jo, and Jinwook Seo, "Progressive Uniform Manifold Approximation and Projection," *EuroVis 2020: Eurographics/IEEE-VGTC Symposium on Visualization*, 2020.

[C07] Jaemin Jo and Jinwook Seo, "Disentangled Representation of Data Distributions in Scatterplots," *Proceedings of IEEE Information Visualization 2019 (short)*, 2019.

[C06] Jaemin Jo, Frédéric Vernier, Pierre Dragicevic, and Jean-Daniel Fekete, "A Declarative Rendering Model for Multiclass Density Maps," *Visualization and Computer Graphics (TVCG, Proc. InfoVis), IEEE Transactions on 25*, no. 1 (2018), 470-480.

[C05] Jaemin Jo, Sehi L'Yi, Bongshin Lee, and Jinwook Seo, "TouchPivot: Blending WIMP & Post-WIMP Interfaces for Data Exploration on Tablet Devices," *Proceedings of the 35th Annual ACM Conference on Human Factors in Computing Systems (CHI 2017)*, 2660-2671, 2017.

[C04] Jaemin Jo, Wonjae Kim, Seunghoon Yoo, Bohyoung Kim, and Jinwook Seo, "SwiftTuna: Responsive and Incremental Visual Exploration of Large-scale Multidimensional Data," *Proceedings of the 10th IEEE Pacific Visualization Symposium (PacificVis 2017)*, 131-140, 2017.

[C03] Sehi L'Yi, Kyle Koh, Jaemin Jo, Bohyoung Kim, and Jinwook Seo, "CloakingNote: A Novel Desktop Interface for Subtle Writing Using Decoy Texts," *Proceedings of the 29th ACM User Interface Software and Technology Symposium (UIST 2016)*, 473-481, 2016.

[C02] Jaemin Jo, Bohyoung Kim, and Jinwook Seo, "EyeBookmark: Assisting Recovery from Interruption during Reading," *Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems (CHI 2015)*, 2963-2966, 2015.

[C01] Jaemin Jo, Jaeseok Huh, Jonghun Park, Bohyoung Kim, and Jinwook Seo, "LiveGantt: Interactively Visualizing a Large Manufacturing Schedule," *Visualization and Computer Graphics (TVCG, Proc. InfoVis), IEEE Transactions on 20*, no. 12 (2014), 2329-2338.

JOURNALS

[J06] Jaemin Jo, Sehi L'Yi, Bongshin Lee, and Jinwook Seo, "ProReveal: Progressive Visual Analytics with Safeguards," *Visualization and Computer Graphics (TVCG), IEEE Transactions on*, to appear.

[J05] Jaemin Jo, Jinwook Seo, and Jean-Daniel Fekete, "PANENE: A Progressive Algorithm for Indexing and Querying Approximate k-Nearest Neighbors," *Visualization and Computer Graphics (TVCG), IEEE Transactions on 26*, no. 2 (2018), 1347-1360.

[J04] Seunghoon Yoo, Jaemin Jo, Bohyoung Kim, and Jinwook Seo "LongLine: Visual Analytics System for Large-scale Audit Logs," *Visual Informatics 2*, no. 1 (2018), 82-97.

[J03] Jaemin Jo, Bongshin Lee, and Jinwook Seo, "WordlePlus: Expanding Wordle's Use through Natural Interaction and Animation," *IEEE Computer Graphics and Applications 35*, no.6 (2015), 20-28.

[J02] Hyun Kyoung Yang, Hyunsik Woo, Jaemin Jo, Min Hee Lee, Bohyoung Kim, Jinwook Seo, Ju Hyun Jung, Heung Sik Kang, and Kyoung Ho Lee, "Development of an Online Radiology Case Review System Featuring Interactive Navigation of Volumetric Image Datasets Using Advanced Visualization Techniques," *Journal of Korean Society of Radiology 73*, no. 5 (2015), 312-322.

[J01] Hyunjoo Song, Jaemin Jo, Bohyoung Kim, and Jinwook Seo, "Adaptive Zoom-based Gaze Tracking for Enhanced Accuracy and Precision," *KIISE Transactions on Computing Practices 21*, no. 9 (2015), 610-615.

WORKSHOPS, POSTERS, AND DOMESTIC CONFERENCES

[O07] Junhoe Kim, Jaemin Jo, and Jinwook Seo, "Autotator: Semi-Automatic Approach for Accelerating the Chart Image Annotation Process," *ACM International Conference on Interactive Surfaces and Spaces (ISS 19)*, 2019. (Poster)

[O06] Jaeyoon Song, Kiroong Choe, Jaemin Jo, and Jinwook Seo, "SoundGlance: Briefing the Glanceable Cues of Web Pages for Screen Reader Users," *ACM CHI Conference on Human Factors in Computing Systems (CHI 19)*, 2019. (Poster)

[O05] Jaemin Jo, Jinwook Seo, and Jean-Daniel Fekete, "A Progressive $k\text{-}d$ Tree for Approximate k-Nearest Neighbors," *Workshop on Data Systems for Interactive Analysis (DSIA 2017)*, 2017.

[O04] Sehi L'Yi, Jaemin Jo, DongHwa Shin, and Jinwook Seo, "Towards a Broader Understanding of Shoulder-surfing Problems," *In Proceedings of HCI KOREA 2018*, 745-748, 2018.

[O03] Jaemin Jo, Wonjae Kim, Seunghoon Yoo, Bohyoung Kim, and Jinwook Seo, "SwiftTuna: Incrementally Exploring Large-scale Multidimensional Data," *IEEE VIS 2016*. (Poster)

[O02] Youli Chang, Brian J. Lee, GuHyun Han, Hyunjoo Song, Jaemin Jo, Han Joo Chae, and Jinwook Seo, "A Usability Testing Method Using EEG, EDA, BVP Biosignals," *In Proceedings of the Korea Computer Congress 2016*, 1396-1398, 2016.

[O01] Jaemin Jo, Patrick Emaase, Wonjae Kim, and Jinwook Seo, "MultiMap: Visualizing Multidimensional Hierarchical Data on Treemaps," *In Proceedings of the Korea Computer Congress 2016*.

PATENTS

[P02] "Improving User Interaction with In-document Objects in Text Editing Scenarios for Mobile Touch Input Devices," Korea, Republic of

[P01] "Improving User Interaction with Multi-Finger Touch Gestures in Text Selection for Touch Input Devices," Korea, Republic of

EXPERIENCES

Postdoctoral Researcher, Seoul National University   Mar 2020 – Aug 2020

Lecturer, Duksung Women's University   Mar 2020 – Aug 2020
  – Data Structures and Algorithms

Visiting Ph.D. Student, AVIZ team (directed by Jean-Daniel Fekete), inria, France   Jan 2017 – Feb 2017

Teaching Assistant
  – Information Visualization (graduate), Seoul National University   2018 Fall
  – Human-Computer Interaction, Seoul National University   2017 Spring
  – Computer Programming (C++ and Java Programming), Seoul National University   2016 Spring
  – Programming Practice (C Programming), Seoul National University   2014 Spring

CEO at Ineeta Something Inc.	Mar 2012 – Feb 2013
Software Maestro Program	Jun 2011 – May 2012

A mentoring program for young software engineers, supported by Ministry of Sciences, ICT and Future Planning of Korean government

HONORS & SCHOLARSHIPS

Outstanding Dissertation Award	Feb 2020

granted by Department of Computer Science and Engineering, Seoul National University

Google Student Travel Grants	Oct 2019

granted by Google

Global Ph.D Fellowship Program	Mar 2015 — Feb 2020

granted by National Research Foundation of Korea

Excellence in Research Award	Aug 2018

granted by Department of Computer Science and Engineering, Seoul National University

Google Travel Grants	Feb 2017

granted by Google University Relation Programs

Global Ph.D Fellowship Visiting Research Grants	Jan 2017

granted by National Research Foundation of Korea

Naver Ph.D Fellowship	May 2016

granted by NAVER

The Presidential Science Scholarship	Mar 2009 — Feb 2014

granted by Korea Student Aid Foundation

ACADEMIC SERVICES

Demo Chair, ACM International Conference on Interactive Surfaces and Spaces 2019, Daejeon, Korea, Republic of   Jul 2019 – Nov 2019

Reviewer
- InfoVis (2017, 2018, 2019, 2020), VAST (2019, 2020), CHI (2019, 2020), UIST (2020), PacificVis (2017, 2018, 2020)

Student Volunteer
- IEEE PacificVis 2017   2017
- ACM CHI 2015   2015

SKILLS

Large-scale data processing and visualization (Apache Hadoop, Apache Spark, d3.js)

Native: Javascript (TypeScript, node, angular.js, ...)

Fluent: Python, C# (UWP, WinRT, and WPF), C++, C, and Ruby

[Last updated: 2020-08-27]