

# 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

- [C15] Chang Han, Anyi Li, Jaemin Jo, Bongshin Lee, Oliver Deussen, and Yunhai Wang, “SizePairs: Achieving Stable and Balanced Temporal Treemaps using Hierarchical Size-based Pairing,” *Visualization and Computer Graphics (TVCG, Proc. InfoVis), IEEE Transactions on*, vol. 29, no. 1 (2023), 193-202.
- [C14] Jiwon Choi and Jaemin Jo, “Intentable: A Mixed-Initiative System for Intent-Based Chart Captioning,” *Proceedings of IEEE Visualization 2022 (short)*, 2022.
- [C13] Hyeon Jeon, Hyung-Kwon Ko, Soohyun Lee, Jaemin Jo, and Jinwook Seo, “Uniform Manifold Approximation with Two-phase Optimization,” *Proceedings of IEEE Visualization 2022 (short)*, 2022.
- [C12] Hyung-Kwon Ko, Subin An, Gwanmo Park, Seung Kwon Kim, Daesik Kim, Bohyoung Kim, Jaemin Jo, and Jinwook Seo, “We-toon: A Communication Support System between Writers and Artists in Collaborative Webtoon Sketch Revision,” *Proceedings of the 35th ACM User Interface Software and Technology Symposium (UIST 2022)*, 2022.
- [C11] Yinqiao Wang, Lu Chen, Jaemin Jo, Yunhai Wang, “Joint t-SNE for Comparable Projections of Multiple High-Dimensional Datasets,” *Visualization and Computer Graphics (TVCG, Proc. InfoVis), IEEE Transactions on*, vol. 28, no. 1 (2022), 623-632.
- [C10] Hyeon Jeon, Hyung-Kwon Ko, Jaemin Jo, Youngtaek Kim, Jinwook Seo, “Measuring and Explaining the Inter-Cluster Reliability of Multidimensional Projections,” *Visualization and Computer Graphics (TVCG, Proc. InfoVis), IEEE Transactions on*, vol. 28, no. 1 (2022), 551-561.
- [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 Transactions on*, vol. 27, no. 2 (2020), 1525-1535.
- [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 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*, vol. 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*, vol. 20, no. 12 (2014), 2329-2338.

#### JOURNALS

- [J08] Donghwa Shin, Jaemin Jo, Bohyoung Kim, Hyunjoo Song, Shin-Hyung Cho, Jinwook Seo, "RCMVis: A Visual Analytics System for Route Choice Modeling," *Visualization and Computer Graphics (TVCG), IEEE Transactions on*, to appear.
- [J07] Jaemin Jo, Sehi L'Yi, Bongshin Lee, and Jinwook Seo, "ProReveal: Progressive Visual Analytics with Safeguards," *Visualization and Computer Graphics (TVCG), IEEE Transactions on*, vol. 27, no. 7 (2021), 3109-3122.
- [J06] Seunghoon Yoo, Jaemin Jo, Bohyoung Kim, and Jinwook Seo, "Hyperion: A Visual Analytics Tool for an Intrusion Detection and Prevention System," *IEEE Access*, vol. 7 (2020), 133865-133881.
- [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*, vol. 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*, vol. 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*, vol. 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*, vol. 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*, vol. 21, no. 9 (2015), 610-615.

#### WORKSHOPS, POSTERS, AND DOMESTIC CONFERENCES

- [O08] Dongjun Lee, Junhyeong Ahn, Heesoo Park, and Jaemin Jo, "IntelliCAT: Intelligent Machine Translation Post-Editing with Quality Estimation and Translation Suggestion Demo," *International Joint Conference on Natural Language Processing Demo Track*, 2021. (Demo)
- [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  $k$ - $d$  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**

**Program Committee**

- IEEE PacificVis 2023
- IEEE VIS 2022

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

**Reviewer**

- VIS (2017, 2018, 2019, 2020, 2021), CHI (2019, 2020), UIST (2020), CSCW (2021), EuroVis (2021), PacificVis (2017, 2018, 2020, 2022)

**Student Volunteer**

- IEEE PacificVis 2017
- ACM CHI 2015

2017

2015

[Last updated: 2022-12-29]