Jaemin Jo

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ACADEMIC POSITION

Sungkyunkwan University, Suwon, Korea, Republic of

- Associate Professor — Sep 2024 – Present
- Assistant Professor — Sep 2020 – Aug 2024

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

[C28] Jaeung Lee, Dohyun Kim, and Jaemin Jo, "Measuring the Depth of LLM Unlearning via Activation Patching," *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2026)*, 2026. **Oral presentation** (Acceptance rate: 452/17,669 = 2.6%)

[C27] Donghee Hong, Minjong Kim, Sooyoung Cha, and Jaemin Jo, "TuneScape: Visualizing Multi-Tuner Parameter Optimization Logs," *Proceedings of IEEE Visualization and Visual Analytics (IEEE VIS 2026 Short)*, 2026.

[C26] Jiwon Choi, Sehi L'Yi, Seojin Kim, and Jaemin Jo, "Swipytics: Leveraging Short-form Video Stream Metaphor in Exploratory Data Analysis," *Proceedings of IEEE Visualization and Visual Analytics (IEEE VIS 2026 Short)*, 2026.

[C25] Donghee Hong, Minjong Kim, Sooyoung Cha, and Jaemin Jo, "Symetra: Visual Analytics for the Parameter Tuning Process of Symbolic Execution Engines," *Computer Graphics Forum (Proc. EuroVis 2026)*, e70461, 2026. (Acceptance rate: 52/195 = 26.7%)

[C24] Donghee Hong, Bongshin Lee, Jinwook Seo, and Jaemin Jo, "HyPockeTuner: Bringing Hyperparameter Optimization to Mobile Devices," *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2026)*, 2026. (Acceptance rate: 1,703/6,730 = 25.3%)

[C23] Yurim Jang, Jaeung Lee, Dohyun Kim, Jaemin Jo, and Simon S. Woo, "Suppression or Deletion: A Restoration-Based Representation-Level Analysis of Machine Unlearning," *Proceedings of The Web Conference (WWW 2026 Short)*, 2026.

[C22] Myeongwon Jung, Takanori Fujiwara, and Jaemin Jo, "GhostUMAP2: Measuring and Analyzing (r,d)-Stability of UMAP," *Visualization and Computer Graphics (TVCG, Proc. IEEE VIS 2025), IEEE Transactions on*, vol. 32, no. 1 (2026), 353–362. (Acceptance rate: 131/537 = 24.4%)

[C21] Jiwon Choi and Jaemin Jo, "Waltzboard: Multi-Criteria Automated Dashboard Design for Exploratory Analysis," *Proceedings of the IEEE Pacific Visualization Conference (PacificVis 2025)*, 258–268, 2025.

[C20] Jiwon Choi, Jaeung Lee, and Jaemin Jo, "Bavisitter: Integrating Design Guidelines into Large Language Models for Visualization Authoring," *Proceedings of IEEE Visualization and Visual Analytics (IEEE VIS 2024 Short)*, 121–125, 2024.

[C19] Myeongwon Jung, Takanori Fujiwara, and Jaemin Jo, "GhostUMAP: Measuring Pointwise Instability in Dimensionality Reduction," *Proceedings of IEEE Visualization and Visual Analytics (IEEE VIS 2024 Short)*, 161–165, 2024.

[C18] Myeongwon Jung, Jiwon Choi, and Jaemin Jo, "Projection Ensemble: Visualizing the Robust Structures of Multidimensional Projections," *Proceedings of IEEE Visualization and Visual Analytics (IEEE VIS 2023 Short)*, 2023.

[C17] Hyeon Jeon, Aeri Cho, Jinhwa Jang, Soohyun Lee, Jake Hyun, Kwon Ko, Jaemin Jo, and Jinwook Seo, "ZADU: A Python Library for Evaluating the Reliability of Dimensionality Reduction Embeddings," *Proceedings of IEEE Visualization and Visual Analytics (IEEE VIS 2023 Short)*, 2023.

[C16] Kwon Ko, Gwanmo Park, Hyeon Jeon, Jaemin Jo, Juho Kim, and Jinwook Seo, "Large-scale Text-to-Image Generation Models for Visual Artists' Creative Works," *Proceedings of the ACM Conference on Intelligent User Interfaces (IUI 2023)*, 919–933, 2023. (Acceptance rate: 66/274 = 24.1%)

[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. IEEE VIS 2022), IEEE Transactions on*, vol. 29, no. 1 (2023), 193–202. (Acceptance rate: 122/460 = 26.5%)

[C14] Jiwon Choi and Jaemin Jo, "Intentable: A Mixed-Initiative System for Intent-Based Chart Captioning," *Proceedings of IEEE Visualization and Visual Analytics (IEEE VIS 2022 Short)*, 2022.

[C13] Hyeon Jeon, Kwon Ko, Soohyun Lee, Jaemin Jo, and Jinwook Seo, "Uniform Manifold Approximation with Two-phase Optimization," *Proceedings of IEEE Visualization and Visual Analytics (IEEE VIS 2022 Short)*, 2022.

[C12] 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 ACM Symposium on User Interface Software and Technology (UIST 2022)*, 2022. (Acceptance rate: 98/372 = 26.3%)

[C11] Yinqiao Wang, Lu Chen, Jaemin Jo, and Yunhai Wang, "Joint t-SNE for Comparable Projections of Multiple High-Dimensional Datasets," *Visualization and Computer Graphics (TVCG, Proc. IEEE VIS 2021), IEEE Transactions on*, vol. 28, no. 1 (2022), 623–632. (Acceptance rate: 114/442 = 25.8%)

[C10] Hyeon Jeon, Kwon Ko, Jaemin Jo, Youngtaek Kim, and Jinwook Seo, "Measuring and Explaining the Inter-Cluster Reliability of Multidimensional Projections," *Visualization and Computer Graphics (TVCG, Proc. IEEE VIS 2021), IEEE Transactions on*, vol. 28, no. 1 (2022), 551–561. (Acceptance rate: 114/442 = 25.8%)

[C09] Sehi L'Yi, Jaemin Jo, and Jinwook Seo, "Comparative Layouts Revisited: Design Space, Guidelines, and Future Directions," *Visualization and Computer Graphics (TVCG, Proc. IEEE InfoVis 2020), IEEE Transactions on*, vol. 27, no. 2 (2021), 1525–1535.

[C08] Kwon Ko, Jaemin Jo, and Jinwook Seo, "Progressive Uniform Manifold Approximation and Projection," *Proceedings of the Eurographics Conference on Visualization (EuroVis 2020 Short)*, 133–137, 2020.

[C07] Jaemin Jo and Jinwook Seo, "Disentangled Representation of Data Distributions in Scatterplots," *Proceedings of the IEEE Visualization Conference (IEEE VIS 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. IEEE VIS 2018), IEEE Transactions on*, vol. 25, no. 1 (2019), 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 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 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 ACM Symposium on User Interface Software and Technology (UIST 2016)*, 473–481, 2016.

[C02] Jaemin Jo, Bohyoung Kim, and Jinwook Seo, "EyeBookmark: Assisting Recovery from Interruption during Reading," *Proceedings of the 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. IEEE VIS 2014), IEEE Transactions on*, vol. 20, no. 12 (2014), 2329–2338.

JOURNALS

[J11] Jaeung Lee, Suhyeon Yu, Yurim Jang, Simon S. Woo, and Jaemin Jo, "Unlearning Comparator: A Visual Analytics System for Comparative Evaluation of Machine Unlearning Methods," *Visualization and Computer Graphics (TVCG), IEEE Transactions on*, vol. 32, no. 3 (2026), 2852–2867.

[J10] Hyeon Jeon, Kwon Ko, Soohyun Lee, Jake Hyun, Taehyun Yang, Gyehun Go, Jaemin Jo, and Jinwook Seo, "UMATO: Bridging Local and Global Structures for Reliable Visual Analytics with Dimensionality Reduction," *Visualization and Computer Graphics (TVCG), IEEE Transactions on*, vol. 31, no. 12 (2025), 10503–10520.

[J09] Xin Chen, Yunhai Wang, Huaiwei Bao, Kecheng Lu, Jaemin Jo, Chi-Wing Fu, and Jean-Daniel Fekete, "Visualization-Driven Illumination for Density Plots," *Visualization and Computer Graphics (TVCG), IEEE Transactions on*, vol. 31, no. 2 (2025), 1631–1644.

[J08] Donghwa Shin, Jaemin Jo, Bohyoung Kim, Hyunjoo Song, Shin-Hyung Cho, and Jinwook Seo, "RCMVis: A Visual Analytics System for Route Choice Modeling," *Visualization and Computer Graphics (TVCG), IEEE Transactions on*, vol. 29, no. 3 (2023), 1799–1817.

[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. 8 (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 (2020), 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.

BOOK CHAPTERS

[B01] Marco Angelini and Jaemin Jo, "Chapter 5. Visualization," in *Progressive Data Analysis: Roadmap and Research Agenda*, Jean-Daniel Fekete, Danyel Fisher, and Michael Sedlmair (Eds.), 2024.

PREPRINTS

[R02] Myeongwon Jung and Jaemin Jo, "GPUMAP: GPU-Accelerated Progressive Uniform Manifold Approximation and Projection," *arXiv:2611.06191*, 2026.

[R01] Seunghoon Jung and Jaemin Jo, "ProGram: A Grammar for Progressive Computation Pipelines," *arXiv:2611.06188*, 2026.

WORKSHOPS, POSTERS, DEMOS, AND DOMESTIC CONFERENCES

[O09] Seunghoon Jung and Jaemin Jo, "PyProgressive: A Lightweight Library for Progressive Computations," *IEEE Visualization and Visual Analytics (IEEE VIS 2026)*, 2026. (Poster, **Best Poster Honorable Mention**)

[O08] Dongjun Lee, Junhyeong Ahn, Heesoo Park, and Jaemin Jo, "IntelliCAT: Intelligent Machine Translation Post-Editing with Quality Estimation and Translation Suggestion," *Joint Conference of the Annual Meeting of the Association for Computational Linguistics and the International Joint Conference on Natural Language Processing (ACL-IJCNLP 2021)*, 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 2019)*, 2019. (Demo)

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

[O05] Sehi L'Yi, Jaemin Jo, Donghwa Shin, and Jinwook Seo, "Towards a Broader Understanding of Shoulder-surfing Problems," *HCI Korea 2018*, 745–748, 2018.

[O04] 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.

[O03] Jaemin Jo, Wonjae Kim, Seunghoon Yoo, Bohyoung Kim, and Jinwook Seo, "Incrementally Exploring Large-scale Multidimensional Data," *IEEE Visualization Conference (IEEE InfoVis 2016)*, 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," *Korea Computer Congress (KCC 2016)*, 1396–1398, 2016. (Poster)

[O01] Jaemin Jo, Patrick Emaase, Wonjae Kim, and Jinwook Seo, "MultiMap: Visualizing Multidimensional Hierarchical Data on Treemaps," *Korea Computer Congress (KCC 2016)*, 2016. (Poster)

PATENTS

[P02] Jinwook Seo, Yongseok Lee, Jaemin Jo, Guhyun Han, Youli Chang, and Jihyun Gook, "Improving User Interaction with Multi-Finger Touch Gestures in Text Selection for Touch Input Devices," Korea, Republic of, 2018.

[P01] Jinwook Seo, Hyunjoo Song, Yongseok Lee, Guhyun Han, Youli Chang, Jaemin Jo, and Jihyun Gook, "Improving User Interaction with In-document Objects in Text Editing Scenarios for Mobile Touch Input Devices," Korea, Republic of, 2017.

HONORS & AWARDS

Best Poster Honorable Mention, IEEE VIS 2026 — 2026
for "PyProgressive: A Lightweight Library for Progressive Computations"

SKKU Teaching Award — 2026
granted by Sungkyunkwan University

Outstanding Dissertation Award — Feb 2020
granted by Department of Computer Science and Engineering, Seoul National University

ACADEMIC SERVICES

VisNotes (Short Papers) Chair, IEEE Pacific Visualization Conference 2027, Busan, Korea, Republic of — Apr 2027

Poster Chair, IEEE Pacific Visualization Conference 2026, Sydney, Australia — Apr 2026

Poster Chair, IEEE Pacific Visualization Conference 2025, Taipei, Taiwan — Apr 2025

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

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