Sehi L'Yi

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EDUCATION

Seoul National University, Seoul, Korea, Republic of

- Ph.D. Student in Computer Science and Engineering   Sep 2013 – Feb 2020
  - Adviser: Prof. Jinwook Seo (Human–Computer Interaction Lab.)
  - Research interests: InfoVis novices, comparative visualizations, privacy

Chungbuk National University, Cheong Ju, Korea, Republic of

- B.S. in Computer Science and Engineering   Mar 2007 – Mar 2013
  - Mandatory Military Service   Jan 2008 – Dec 2009

PUBLICATIONS

JOURNALS

[J.04] J. Jo, S. L'Yi, B. Lee, and J. Seo, "ProReveal: Progressive Visual Analytics with Safeguards," *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, To appear, 2020.

[J.03] S. L'Yi, Y. Chang, D. Shin, and J. Seo, "Toward Understanding Representation Methods in Visualization Recommendations through Scatterplot Construction Tasks," *Computer Graphics Forum (Proc. EuroVis)*, 38, 3: 201-211, Jun 2019.

[J.02] S. L'Yi, D. Jung, M. Oh, B. Kim, R. Freishtat, M. Giri, E. Hoffman, and J. Seo, "miRTarVis+: Web-based interactive visual analytics tool for microRNA target predictions," *Methods*, 124, 78-88, Jul 2017.

[J.01] S. L'Yi, B. Ko, D. Shin, Y. Cho, J. Lee, B. Kim, and J. Seo, "XCluSim: A Visual Analytics Tool for Interactively Comparing Multiple Clustering Results of Bioinformatics Data," *BMC Bioinformatics (Proc. BioVis)*, 16 Suppl 11:S5, Aug 2015.

CONFERENCES

[C.06] J. Jo, S. L'Yi, B. Lee, and J. Seo, "TouchPivot: Blending WIMP & Post-WIMP Interfaces for Data Exploration on Tablet Devices," in *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '17)*, 2660-2671, May 2017.

[C.05] D. Jung, S. L'Yi, B. Kim, and J. Seo, "Interactive Visual Analysis of miRNA Target Prediction Results," in *Proceedings of the 2017 IEEE International Conference on Big Data and Smart Computing (BigComp '17)*, 363-365 Feb 2017. (Best Presentation Awards)

[C.04] S. L'Yi, K. Koh, J. Jo, B. Kim, and J. Seo, "CloakingNote: A Novel Desktop Interface for Subtle Writing Using Decoy Texts," in *Proceedings of the 29th ACM User Interface Software and Technology Symposium (UIST '16)*, 473-481, Oct 2016.

[C.03] Y. Chang, S. L'Yi, K. Koh, and J. Seo, "Understanding Users' Touch Behavior on Large Mobile Touch-Screens and Assisted Targeting by Tilting Gesture," in *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '15)*, 1499-1508, May 2015.

[C.02] JY. Shin, DH. Jo, S. L'Yi, SY. Moon, JH. Bae, and TS. Lee, "Smartphone-based Pupillary Light Reflex Test System," in *Proceedings of the International Conference on Automation and Systems (ICCAS '13)*, 1292-1295, Oct 2013.

[C.01] JY. Shin, S. L'Yi, DH. Jo, JH. Bae, and TS. Lee, "Development of smartphone-based stethoscope system," in *Proceedings of the International Conference on Automation and Systems (ICCAS '13)*, 2093-7121, Oct 2013.

BOOK CHAPTERS

[B.01] S. L'Yi, B. Ko, D. Shin, Y. Cho, J. lee, B. Kim, and J. Seo, "Visual Analytics for Comparing Multiple Clustering Results of Bioinformatics Data," *The Wiley Handbook of Human Computer Interaction*, 2, 945-966. Feb 2018.

POSTERS

[A.01] Y. Chang, <u>S. L'Yi</u>, and J. Seo, "Reaching Targets on Discomfort Region Using Tilting Gesture," in *Proceedings of the 27th ACM User Interface Software and Technology Symposium (UIST '14),* 115-116, Oct 2014.

DOMESTIC JOURNALS & CONFERENCES

[D.05] D. Shin, <u>S. L'Yi</u>, H. Song, and J. Seo, "Progressive Visual Analytics Using Scagnostics and an Automatic Partitioning Variables Selection Method," *Journal of KIISE*, 45, 8: 801-806. Aug 2018.

[D.04] <u>S. L'Yi</u>, D. Shin, Y. Chang, J. Lee, and J. Seo, "A Survey on Visualization Guidelines for InfoVis Novices," in *Proceedings of Korea Computer Congress 2018*, 1453-1454, Jun 2018.

[D.03] <u>S. L'Yi</u>, J. Jo, D. Shin, and J. Seo, "Towards a Broader Understanding of Shoulder-surfing Problems," in *Proceedings of HCI KOREA 2018*, 745-748, Feb 2018.

[D.02] <u>S. L'Yi</u> and J. Seo, "Visualizing Users' Music Listening Patterns Using Last.fm Data," in *Proceedings of The HCI Society of Korea*, 575-577, Feb 2017.

[D.01] D. Shin, <u>S. L'Yi</u>, and J. Seo, "Visualizing Cluster Hierarchy Using Hierarchy Generation Framework," *KIISE Transactions on Computing Practices*, 21,6: 436-441, Jun 2015.

SERVICES & EXPERIENCES	■ **External Reviewer**	
	• ACM CHI '20, '19, '18 (Paper, Poster)	2020 – 2018
	• EuroVis '19 (Paper)	2019
	• ACM MobileHCI '18 (Paper, Poster)	2018
	• Elsevier Methods (Paper)	2017
	■ **Student Volunteer**	
	• IEEE PacificVis 2017	Apr 2017
	• ACM CHI 2016	Apr 2016
	■ **Teaching Assistant**	
	• Computer Science for Bioinformatics (D3.js), Seoul National University	2017 – 2016
	• Computer Programming (C++ & JAVA), Seoul National University	2016
	• Programming Practice (C Programming), Seoul National University	2014
	■ **Undergraduate Research Intern**	
	• UBDC Lab., College of Medicine, Chungbuk National University (advised by Tae Soo Lee)	Feb 2012 – Feb 2013
AWARDS & SCHOLARSHIPS	■ **Naver PhD Fellowship**	Aug 2016
	granted by NAVER	
	■ **Google Travel Grants**	Mar 2016
	granted by Google Conference and Travel Scholarships	
	■ **Silver Medal**	Sep 2012
	awarded at International Genetically Engineered Machine Competition (iGEM)	

[CV compiled on 2019-12-17]