

Curriculum Vitae

Kahyun Choi

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Research Interests

Song lyrics analysis

- Subject detection and topic modeling from the user interpretations of the lyrics, which are available as a form of social/crowdsourced data
- Web user opinion analysis

Audio music classification

- Audio features for mood classification

Metadata

- Crowdsourced music annotation
- Cross cultural differences in the music moods and genres

Evaluations of Music Information Retrieval (MIR) systems

- Community-driven system-centered evaluation
- User-centered user experience evaluation

Informetrics study

- Social network analysis on co-authorship networks

Education

University of Illinois at Urbana-Champaign

- PhD in Library and Information Science
- From Aug. 2011 (currently pursuing)
- Proposed dissertation: *Computational Lyricology: Quantitative Approaches to Understanding Song Lyrics and Their Interpretations*
- Advisor: Professor J. Stephen Downie

Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea

- Master of Science in Digital Media Program

- Feb. 2006 ~ Jan. 2010
- Thesis: [Performance Improvement of Music Mood Classification Using Hyper Music Features](#)
- Advisor: Professor Minsoo Hahn

Ajou University, Suwon, Korea

- Bachelor of Engineering in Information and Computer Engineering,
- Mar. 2000 ~ Feb. 2005

University of Illinois at Chicago

- Exchange Student in the Department of Computer Science
- Fall semester, 2004

Work Experience

Co-Instructor

- Graduate School of Library and Information Science, University of Illinois at Urbana-Champaign
- Aug. 2016 ~ Dec. 2016
- Digital Libraries (LIS560LE)

Research Assistant

- Graduate School of Library and Information Science, University of Illinois at Urbana-Champaign
- Aug. 2011 ~ Aug. 2016
- Projects: [Music Information Retrieval Evaluation eXchange \(MIREX\)](#), K-Pop Mood/Genre Annotation, [HathiTrust Research Center \(HTRC\)](#)

Teaching Assistant

- Graduate School of Library and Information Science, University of Illinois at Urbana-Champaign
- 2013 ~ 2017 Digital Libraries (LIS560LE)

Software Developer

- [Naver Corp.](#)
- Jan. 2009 ~ Jun. 2011
- Member System Development Team

Software Developer (Internship)

- Jun. 2007 ~ Jul. 2007
- [Postvisual](#)

Publications

- Anders Friberg, Ragnar Schön, Anders Elowsson, Kahyun Choi, and J. Stephen Downie, "Cross-cultural aspects of perceptual features in K-Pop: A pilot study comparing Chinese and Swedish listeners," in Proceedings of the 43rd International Computer Music Conference, (ICMC), 2017

- Xiao Hu, Kahyun Choi, Yun Hao, Sally Jo Cunningham, Jin Ha Lee, Audrey Laplante, David Bainbridge, and J. Stephen Downie, "Exploring the Music Library Association Mailing List: A Text Mining Approach", in Proceedings of the 18th International Society for Music Information Retrieval Conference, (ISMIR), 2017
- Kahyun Choi, Jin Ha Lee, Xiao Hu, and J. Stephen Downie, "[Music Subject Classification Based on Lyrics and User Interpretations](#)", Proceedings of the American Society for Information Science and Technology (ASIS&T), 2016
- Xiao Hu, Kahyun Choi, Jin Ha Lee, Audrey Laplante, Yun Hao, Sally Jo Cunningham and J. Stephen Downie, "[WiMIR: An Informetric Study on Women Authors in ISMIR](#)", in Proceedings of the 17th International Society for Music Information Retrieval Conference, (ISMIR), 2016
- Yun Hao, Kahyun Choi, and J. Stephen Downie, "[Exploring J-DISC: Some Preliminary Analyses](#)", in Proceedings of the 3rd International Digital Libraries for Musicology workshop (DLfM), 2016.
- Xiao Hu, Kahyun Choi, J. Stephen Downie, "[A Framework for Evaluating Multimodal Music Mood Classification](#)", Journal of the Association for Information Science and Technology, 2016
- Xiao Hu, Jin Ha Lee, David Bainbridge, Kahyun Choi, Peter Organisciak, and J. Stephen Downie, "[The MIREX Grand Challenge: a framework of holistic user experience evaluation in music information retrieval](#)", Journal of the Association for Information Science and Technology, 2015
- Jin Ha Lee, Xiao Hu, Kahyun Choi, and J. Stephen Downie, "[MIREX Grand Challenge 2014 on User Experience: Qualitative analysis of user feedback](#)", in Proceedings of the International Society for Music Information Retrieval Conference, (ISMIR), 2015
- Kahyun Choi, Jin Ha Lee, Craig Willis, J. Stephen Downie, "[Topic Modeling Users' Interpretations of Songs to Inform Subject Access in Music Digital Libraries](#)", In Proceedings of the IEEE/ACM Joint Conference in Digital Libraries (JCDL), 2015
- J. Stephen Downie, Xiao Hu, Jin Ha Lee, Kahyun Choi, Yun Hao, and Sally Jo. Cunningham, "[Ten Years of MIREX \(Music Information Retrieval Evaluation eXchange\): Reflections, Challenges and Opportunities](#)", in Proceedings of the International Society for Music Information Retrieval Conference, (ISMIR), 2014
- Xiao Hu, Jin Ha Lee, Kahyun Choi, and J. Stephen Downie, "[A Cross-Cultural Study on the Mood of K-POP Songs](#)", in Proceedings of the International Society for Music Information Retrieval Conference, (ISMIR), 2014
- Kahyun Choi, Jin Ha Lee, and J. Stephen Downie, "[What is this song about anyway?: Automatic classification of subject using user](#)

- [interpretations and lyrics](#)", In Proceedings of the IEEE/ACM Joint Conference in Digital Libraries (JCDL), 2014
- Jin Ha Lee, Kahyun Choi, Xiao Hu, and J. Stephen Downie, "[K-Pop Genres: A Cross Cultural Exploration](#)", in Proceedings of the International Society for Music Information Retrieval Conference, (ISMIR), 2013.

Presentations

Doctoral Colloquia

- Music Thumbnailing, 2016 Annual Meeting of the Association for Information Science and Technology (ASIS&T) Doctoral Colloquium, Copenhagen, Denmark, Oct. 18, 2016.
 - Travel grant (\$200) and registration fee waiver
- From Lyrics to Their Interpretations: Automated Reading between the Lines, the IEEE/ACM Joint Conference in Digital Libraries (JCDL) Doctoral Consortium, 2015
 - Travel grant to cover the cost of travel, lodging, and registration fees

Talks

- Information Retrieval, Digital Libraries (LIS560LE), Spring 2015.
- Automatic Music Subject Classification and a Cross-Cultural Exploration of K-Pop Genre, Shazam, Menlo Park, CA, Aug. 14, 2014.
- A Cross-Cultural Study on the Mood and Genre of Korean Pop Songs, Pandora Radio, Oakland, CA, Jun. 19, 2014.
- A Cross-cultural Exploration of K-Pop Moods and Genres, KTH Royal Institute of Technology, Sweden, May 3, 2014 - May 9, 2014.
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Posters

- Topic Modeling Users' Interpretations of Songs to Inform Subject Access in Music Digital Libraries, GSLIS Research Showcase 2015
- The Impact of Music Genre on Music Similarity: A Qualitative Exploration, GSLIS Research Showcase 2015
- Exploring Music Subject Classification Based on User Interpretations of Music, Midwest Music Information Retrieval Gathering (MMIRG), Evanston, IL, Jun. 14, 2014.
- K-Pop Genres: A Cross Cultural Exploration, GSLIS Research Showcase 2014
- Exploiting Structural Data for Music Exploration, GSLIS Research Showcase 2013
- Music Mood Tag Prediction with Dimension Reduced Tag Space, GSLIS Research Showcase 2013
- HathiTrust Research Center: New Frontiers in Digital Scholarship, GSLIS Research Showcase 2013

Awards

- Women in Music Information Retrieval (WiMIR) Award, ISMIR, 2016
 - Housing and registration fees waiver

Honors and Scholarships

Merit based university scholarships for four semesters

- Department of Information and Computer Engineering, Ajou University, Suwon, Republic of Korea
- Spring 2004, fall 2003, spring 2002, fall 2001

Graduated with honors

- Department of Information and Computer Engineering, Ajou University, Suwon, Republic of Korea

Skills

- Programming languages: Matlab, JavaScript, Python, R, Java, C, PHP, C with PIC
- Linux, NLP tools, scikit-learn, Mallet, NodeXL, Dedoose, Weka, and Amazon MTurk

Professional Activities

Research Community Work

- The Music Information Retrieval Evaluation eXchange (MIREX), Evaluation Committee member, (Aug. 2011 - Aug. 2016)

As a reviewer of journals and conferences

- The International Society for Music Information Retrieval Conference (ISMIR)
- ACM Transactions on Intelligent Systems and Technology (TIST)
- The American Society for Information Science and Technology (ASIS&T)
- International Journal on Digital Libraries (IJDL)