

Minje Kim

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1. POSITIONS HELD

Indiana University, Bloomington, IN

- Assistant Professor Aug. 2016 — present
 - School of Informatics, Computing, and Engineering
 - + Department of Intelligent Systems Engineering
 - Data Science Program
 - Cognitive Science Program

Adobe Research, San Francisco, CA

- Research Intern Summers in 2012 — 2015
 - Creative Technologies Lab

University of Illinois at Urbana-Champaign

- Research Assistant Fall 2011 — Spring 2015
(except for Fall 2014)
 - Department of Computer Science
- Teaching Assistant Fall 2014, Fall 2015, Spring 2016
 - Department of Computer Science

ETRI (A National Lab in Korea), Daejeon, Korea

- Researcher Feb. 2006 — Jun 2011
 - Audio Research Team

POSTECH, Pohang, Korea

- Research Assistant Spring 2004 — Fall 2005
(except for Fall 2004)
 - Department of Computer Science and Engineering
- Teaching Assistant Fall 2004
 - Department of Computer Science and Engineering

2. EDUCATION

Ph.D. in Computer Science

May. 2016

- University of Illinois at Urbana-Champaign
- Committee: Paris Smaragdís (Advisor), Rob A. Rutenbar, Mark Hasegawa-Johnson, Gautham Mysore
- Dissertation: "[Audio Computing in the Wild: Frameworks for Big Data and Small Computers](#)"

M.S. in Computer Science and Engineering, *Summa Cum Laude*

Feb. 2006

- POSTECH, Pohang, Korea
- Advisor: Seungjin Choi
- Thesis: "[Monaural Music Source Separation: Nonnegativity, Sparseness, and Shift-Invariance](#)"

B.E. in Information and Computer Engineering, *Honor*

Feb. 2004

- Ajou University, Suwon, Korea

3. RESEARCH FUNDING

Intel Corporation (\$180K)

Jan. 2017 — Dec. 2018

- Title: "Bitwise Deep Recurrent Neural Networks for Efficient Context-Aware Pervasive Systems"
- Principal Investigator

Korean Ministry of Science, ICT and Future Planning (\$1.75M in total; my portion is \$330K)

Jan. 2017 — Dec. 2021

- Title: "Research on Audio Signal Analysis/Synthesis Technology Based on Machine Learning"
- Principal Investigator
- In collaboration with ETRI

Synaptics Inc. (\$150K)

Aug. 2017 — Jul. 2019

- Title: "To Tackle Heterogeneity in Real-World Audio Processing Tasks by Using Collaborative Machine Learning Models"
- Principal Investigator

4. HONORS, AWARDS & FELLOWSHIPS

- Outstanding Teaching Assistant** Fall 2015
 - Dept. of Computer Science, UIUC, for the class "Machine Learning for Signal Processing (CS598PS)"
- Finalist for the Best Student Papers on Audio Signal Processing** Jul. 2015
 - For the paper published in LVA/ICA 2015 [C023]
- Qualcomm Innovation Fellowship 2015 Finalist** Dec. 2014
 - 35 finalists out of 146 submitted proposals from 18 participating universities
- Starkey Signal Processing Research Student Grant** Apr. 2014
 - For the paper published in ICASSP 2014 [C017]
- Intel PhD Fellowship Finalist** Feb. 2014
 - One of six nominees to represent the University of Illinois in the national competition
- Microsoft Research PhD Fellowship Nominee** Oct. 2013
 - Selected as one of three applicants to represent the Dept. of Computer Science in the University of Illinois
- Google ICASSP Student Travel Grant and AASP Best Student Paper** Jun. 2013
 - For the paper published in ICASSP 2013 [C012]
- Richard T. Cheng Endowed Fellowship** Aug. 2011 — Jul. 2012
 - As an exceptional incoming student, Dept. of Computer Science, UIUC (\$9,999)
- Summa Cum Laude** Feb. 2006
 - POSTECH
- Graduate with Honor** Feb. 2004
 - Ajou University
- Full Scholarship for the four years of the undergraduate study** Mar. 2000 — Feb. 2004
 - As the departmental top-scored student in the university entrance exam

5. TEACHING

Teaching Courses

- "Machine Learning for Signal Processing" (ENGR-E 511, ISE IU), Fall 2018
- "Deep Learning Systems" (ENGR-E 533, ISE IU), Spring 2018
- "Machine Learning for Signal Processing" (ENGR-E 599, ISE IU), Fall 2017
- "Machine Learning for Signal Processing" (ENGR-E 599, ISE IU), Spring 2017

Teaching Assistant

- "Probability in Computer Science (CS361)," Dept. of Computer Science, UIUC, Spring 2016
- "Machine Learning for Signal Processing (CS598PS, CS598PSO)," Dept. of Computer Science, UIUC, Fall 2015
[Outstanding Teaching Assistant Award]
- "Machine Learning for Signal Processing (CS598PS)," Dept. of Computer Science, UIUC, Fall 2014
- "Automata and Formal Languages," POSTECH, Fall 2004

6. ADVISING

PhD Advisees

PhD Candidates

- Lijiang Guo (ISE at IU)
- Sanna Wager (Informatics at IU)
- Kai Zhen (CS at IU)

PhD Students

- Sun Woo Kim (ISE at IU)
- Aswin Sivaraman (ISE at IU)

PhD Dissertation Committee Member

Past

- Supun Kamburugamuve (CS at IU, now at IU as a software engineer)
- Liang Chen (Informatics at IU, now at Google)
- Jerome Mitchell (CS at IU, now at Intel)

Current

- Yucong Jiang (Informatics at IU)
- Lei Le (CS at IU)
- Aditya Tandon (Informatics at IU)

PhD Advisory Committee Member (Before the Qualifying Exam)

Past

- Pulasthi Supun Wickramasinghe (CS at IU)
- Xuan Dong (CS at IU)

Current

- Tyler Balson (ISE at IU)
- Vibhatha Abeykoon (ISE at IU)
- Qian Lou (ISE at IU)
- AJ Piergiovanni (CS at IU)

Independent Study

- Lijiang Guo (ISE at IU): "Voice activity detection using multimodal models," Spring 2018
- Sun Woo Kim (CS at IU): "Capsule networks," Spring 2018
- Kai Zhen (CS at IU): "Audio coding," Spring 2018
- Aswin Sivaraman (ISE at IU): "Psychoacoustic Models and Neural Networks," Fall 2017
- Lijiang Guo (ISE at IU): "Bitwise Source Separation," Fall 2017
- Sun Woo Kim (CS at IU): "End-to-end models," Fall 2017
- Mrinmoy Maity (CS at IU): "Efficient Hashing," Fall 2017
- Kai Zhen (CS at IU): "Psychoacoustic Models and Neural Networks," Fall 2017
- Brahmendra Sravan Kumar Patibandla (Data Science at IU): "LSTM autoencoders," Summer 2017
- Vibhatha Abeykoon (ISE at IU): "Denoising autoencoders," Spring 2017
- Sanna Wager (Informatics at IU): "Dereverberation in the multi-channel environment," Spring 2017
- Sanna Wager (Informatics at IU): "Concatenative Sound Synthesis," Fall 2016
- Mrinmoy Maity (CS at IU): "Bitwise Recurrent Neural Networks," Fall 2016, Spring 2017
- Lijiang Guo (ISE at IU): "Hashing-based fully bitwise source separation," Spring 2017
- Lijiang Guo (ISE at IU): "Deep Learning and Parallel Computing," Fall 2016
- Zhaozhi Zhang (ISE at IU): Coursework advisor, Fall 2016

Mentoring Undergraduate Thesis Research at UIUC

- Aswin Sivaraman: "Quantization Error Tolerance in Hashed Audio Spectra," Fall 2014 – Spring 2015

- Vinay Maddali: "Multichannel Audio Source Separation Using Probabilistic Latent Component Sharing," Fall 2012 – Spring 2013
- Igor Fedorov: "Timbre Exchange Among Speakers Using Source-Filter Model," Fall 2011 – Spring 2012

7. PROFESSIONAL ACTIVITIES

Technical Committee

- IEEE Audio and Acoustic Signal Processing Technical Committee (2018-2020)

Conference Session Chair

- IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2018, "AASP-L1: Deep Learning-based Speech Separation"
- IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2017, "AASP-L3: Deep Learning for Source Separation and Enhancement I"

Journal Editor

- European Association for Signal Processing (EURASIP) Journal on Audio, Speech, and Music Processing, Associate Editor

Journal Reviewer

- IEEE/ACM Transactions on Audio, Speech, and Language Processing
- IEEE Signal Processing Magazine
- The Journal of the Acoustical Society of America (JASA)
- IEEE Transactions on Neural Networks and Learning Systems
- IEEE Transactions on Signal Processing
- IEEE Signal Processing Letters
- Elsevier Neurocomputing
- Elsevier Signal Processing
- Elsevier Speech Communication

Conference Reviewer and Program Committee Member

- Neural Information Processing Systems (NIPS)
- International Conference on Machine Learning (ICML)
- International Joint Conference on Artificial Intelligence (IJCAI)
- Association for Advances in Artificial Intelligence (AAAI) Conferences on Artificial Intelligence
- IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)
- IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA)
- Asian Conference on Machine Learning (ACML)
- The International Society for Music Information Retrieval Conference (ISMIR)
- European Signal Processing Conference (EUSIPCO)
- International Conference on Latent Variable Analysis and Signal Separation (LVA/ICA)
- Digital Audio Effects (DAFx)
- Joint Conference of Workshops on Statistical and Perceptual Audition and Speech Communication with Adaptive Learning (SAPA-SCALE)
- IEEE Global Conference on Signal and Information Processing (GlobalSIP)

Member of IEEE and IEEE Signal Processing Society

- Since 2012

8. PUBLICATION

International Journal Articles

- [J005] Hongwei Wang, Yunlong Gao, Shaohan Hu, Shiguang Wang, Renato Mancuso, *Minje Kim*, Poliang Wu, Lu Su, Lui Sha, and Tarek Abdelzaher, "On Exploiting Structured Human Interactions to Enhance

Sensing Accuracy in Cyber-physical Systems," *ACM Transactions on Cyber-Physical Systems*, vol. 1, no. 3, article 16, pp. 16:1-16:19, Jul. 2017.

- [J004] Po-Sen Huang, *Minje Kim*, Mark Hasegawa-Johnson, and Paris Smaragdis, "Joint Optimization of Masks and Deep Recurrent Neural Networks for Monaural Source Separation," *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 23, no. 12, pp. 2136-2147, Dec. 2015.
- [J003] *Minje Kim* and Paris Smaragdis, "Mixtures of Local Dictionaries for Unsupervised Speech Enhancement," *IEEE Signal Processing Letters*, vol. 22, no. 3, pp. 288-292, Mar. 2015 (Also presented in ICASSP 2015).
- [J002] *Minje Kim*, Jiho Yoo, Kyeongok Kang and Seungjin Choi, "Nonnegative Matrix Partial Co-Factorization for Spectral and Temporal Drum Source Separation," *IEEE Journal of Selected Topics in Signal Processing*, vol. 5, no. 6, pp. 1192-1204, Oct. 2011.
- [J001] Seungkwon Beack, Taejin Lee, *Minje Kim*, and Kyeongok Kang, "An Efficient Time-Frequency Representation for Parametric-Based Audio Object Coding," *ETRI Journal*, vol. 33, no. 6, pp. 945-948, Dec. 2011.

Refereed International Conference Proceedings

- [C032] Michael Bechtel, Elise McEllhiney, *Minje Kim* and Heechul Yun (2018), "DeepPicar: A Low-cost Deep Neural Network-based Autonomous Car," in Proc. of the *24th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA)*, Hakodate, Japan, Aug. 28-31, 2018.
 - [C031] Sanna Wager and *Minje Kim* (2018), "Collaborative speech dereverberation: regularized tensor factorization for crowdsourced multi-channel recordings," in Proc. of the *26th European Signal Processing Conference (EUSIPCO)*, Rome, Italy, Sep. 3-7, 2018.
 - [C030] Matt Setzler, Tyler Marghetis, and *Minje Kim* (2018), "Creative leaps in musical ecosystems: early warning signals of critical transitions in professional jazz," in Proc. of the *40th Annual Conference of the Cognitive Science Society (CogSci)*, Madison, WI, July 25-28, 2018.
 - [C029] Lijiang Guo and *Minje Kim*, "Bitwise Source Separation on Hashed Spectra: An Efficient Posterior Estimation Scheme Using Partial Rank Order Metrics," in Proc. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Calgary, Canada, April 15-20, 2018.
 - [C028] *Minje Kim* and Paris Smaragdis, "Bitwise Neural Networks for Efficient Single-Channel Source Separation," in Proc. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Calgary, Canada, April 15-20, 2018.
 - [C027] Lei Jiang, *Minje Kim*, Wujie Wen and Danghui Wang, "XNOR-POP: A Processing-in-Memory Architecture for Binary Convolutional Neural Networks in Wide-IO2 DRAMs," In Proc. *IEEE/ACM International Symposium on Low Power Electronics and Design (ISLPED)*, Taipei, Taiwan, July 24-26, 2017.
 - [C026] *Minje Kim*, "Collaborative Deep Learning for Speech Enhancement: A Run-Time Model Selection Method Using Autoencoders," In Proc. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, New Orleans, LA, March 5-9, 2017.
 - [C025] Sanna Wager, Liang Chen, *Minje Kim*, and Christopher Raphael, "Towards Expressive Instrument Synthesis Through Smooth Frame-By-Frame Reconstruction: From String To Woodwind," in Proc. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, New Orleans, LA, March 5-9, 2017.
 - [C024] *Minje Kim* and Paris Smaragdis, "Efficient Neighborhood-Based Topic Modeling for Collaborative Audio Enhancement on Massive Crowdsourced Recordings," In Proc. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Shanghai, China, March 20-25, 2016.
 - [C023] *Minje Kim* and Paris Smaragdis, "Adaptive Denoising Autoencoders: A Fine-tuning Scheme to Learn from Test Mixtures," In Proc. *International Conference on Latent Variable Analysis and Signal Separation (LVA/ICA)*, Liberec, Czech Republic, August 25-28, 2015.
- [Nominated for the Best Student Paper on Audio Signal Processing]**

- [C022] *Minje Kim*, Paris Smaragdis, and Gautham J. Mysore, "Efficient Manifold Preserving Audio Source Separation Using Locality Sensitive Hashing," In Proc. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Brisbane, Australia, April 19-24, 2015.
- [C021] Yunlong Gao, Shaohan Hu, Renato Mancuso, Hongwei Wang, *Minje Kim*, Poliang Wu, Lu Su, Lui Sha, and Tarek Abdelzaher, "Exploiting Structured Human Interactions to Enhance Estimation Accuracy in Cyber-physical Systems," In Proc. *International Conference on Cyber-Physical Systems (ICCPs)*, Seattle, WA, April 14-16, 2015.
- [C020] *Minje Kim* and Paris Smaragdis, "Efficient Model Selection for Speech Enhancement Using a Deflation Method for Nonnegative Matrix Factorization," In Proc. *IEEE Global Conference on Signal and Information Processing (Global SIP)*, Atlanta, GA, December 3-5, 2014.
- [C019] Po-Sen Huang, *Minje Kim*, Mark Hasegawa-Johnson, and Paris Smaragdis, "Singing-Voice Separation From Monaural Recordings Using Deep Recurrent Neural Networks," In Proc. *International Society for Music Information Retrieval Conference (ISMIR)*, Taipei, Taiwan, Oct. 27-31, 2014.
- [C018] Ding Liu, Paris Smaragdis, and *Minje Kim*, "Experiments on Deep Learning for Speech Denoising," In Proc. *Annual Conference of the International Speech Communication Association (Interspeech)*, Singapore, September 14-18, 2014.
- [C017] Po-Sen Huang, *Minje Kim*, Mark Hasegawa-Johnson, and Paris Smaragdis, "Deep Learning for Monaural Speech Separation," In Proc. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Florence, Italy, MAY 4-9, 2014.
[Winner of the Starkey Signal Processing Research Student Grant]
- [C016] Johannes Traa, *Minje Kim*, Paris Smaragdis, "Phase and Level Difference Fusion for Robust Multichannel Source Separation," In Proc. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Florence, Italy, MAY 4-9, 2014.
- [C015] Paris Smaragdis and *Minje Kim*, "Non-Negative Matrix Factorization for Irregularly-Spaced Transforms," In Proc. *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA)*, New Paltz, NY, Oct. 20 – 23, 2013.
- [C014] *Minje Kim* and Paris Smaragdis, "Single Channel Source Separation Using Smooth Nonnegative Matrix Factorization with Markov Random Fields," In Proc. *IEEE International Workshop on Machine Learning for Signal Processing (MLSP)*, Southampton, UK, Sep. 22 – 25, 2013.
- [C013] *Minje Kim* and Paris Smaragdis, "Manifold Preserving Hierarchical Topic Models for Quantization and Approximation," In Proc. *International Conference on Machine Learning (ICML)*, Atlanta, Georgia, Jun. 16 – 21, 2013.
- [C012] *Minje Kim* and Paris Smaragdis, "Collaborative Audio Enhancement Using Probabilistic Latent Component Sharing," In Proc. *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Vancouver, Canada, May 26 – 31, 2013.
[Winner of the Google ICASSP Student Travel Grant]
[Best Student Paper Award in the Audio and Acoustic Signal Processing (AASP) area]
- [C011] C. Zhang, G.G. Ko, J.W. Choi, S.-N. Tsai, *Minje Kim*, A.G. Rivera, R. Rutenbar, P. Smaragdis, M.S. Park, V. Narayanan, H. Xin, O. Mutlu, B. Li, L. Zhao, M. Chen, and R. Iyer, "EMERALD: Characterization of Emerging Applications and Algorithms for Low-power Devices," In Proc. *IEEE International Symposium on Performance Analysis of Systems and Software (ISPASS)*, Austin, TX, Apr. 21 – 23, 2013.
- [C010] *Minje Kim*, Paris Smaragdis, Glenn G. Ko, and Rob A. Rutenbar, "Stereophonic Spectrogram Segmentation Using Markov Random Fields," In Proc. *IEEE International Workshop on Machine Learning for Signal Processing (MLSP)*, Santander, Spain, Sep. 23 – 26, 2012.
- [C009] *Minje Kim*, Seungkwon Beack, Keunwoo Choi and Kyeongok Kang, "Gaussian Mixture Model for Singing Voice Separation from Stereophonic Music," In Proc. *Audio Engineering Society 43th Conference (AES Conference)*, Pohang, Korea, Sep. 29 – Oct. 1, 2011.

- [C008] *Minje Kim*, Jiho Yoo, Kyeongok Kang and Seungjin Choi, "Blind Rhythmic Source Separation: Nonnegativity and Repeatability," In Proc. *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Dallas, TX, Mar. 14 – 19, 2010.
- [C007] Jiho Yoo, *Minje Kim*, Kyeongok Kang and Seungjin Choi, "Nonnegative Matrix Partial Co-Factorization for Drum Source Separation," In Proc. *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Dallas, TX, Mar. 14 – 19, 2010.
- [C006] *Minje Kim*, Seungkwon Beack, Taejin Lee, Daeyoung Jang and Kyeongok Kang, "Segmented Dimensionality Reduction Coding on Frequency Domain Signal," In Proc. *Audio Engineering Society 34th Conference (AES Conference)*, Jeju Island, Korea, Aug. 28 – 30, 2008.
- [C005] *Minje Kim*, Minsik Park, Seung-jun Yang, Ji Hoon Choi and Han-kyu Lee, "System Aspects of TV-Anytime Metadata Codec in a Uni-directional Broadcasting Environment," In Proc. *IEEE International Symposium on Consumer Electronics (ISCE)*, Dallas, TX, Jun. 20 – 23, 2007.
- [C004] Seung-jun Yang, Jung Won Kang, Dong-San Jun, *Minje Kim*, and Han-kyu Lee, "TV-Anytime Metadata Authoring Tool for Personalized Broadcasting Services," In Proc. *IEEE International Symposium on Consumer Electronics (ISCE)*, Dallas, TX, Jun. 20-23, 2007.
- [C003] *Minje Kim* and Seungjin Choi, "ICA-based Clustering for Resolving Permutation Ambiguity in Frequency-Domain Convolutional Source Separation," In Proc. *IEEE International Conference on Pattern Recognition (ICPR)*, Hong Kong, Aug. 20 – 24, 2006.
- [C002] *Minje Kim* and Seungjin Choi, "Monaural Music Source Separation: Sparseness, Nonnegativity and Shift-invariance," In Proc. *International Conference on Latent Variable Analysis and Signal Separation (LVA/ICA)*, pp. 617-624, Charleston, SC, Mar. 5 – 8, 2006. (LNCS 3889).
- [C001] *Minje Kim* and Seungjin Choi, "On Spectral Basis Selection for Single Channel Polyphonic Music Separation," In Proc. *International Conference on Artificial Neural Networks (ICANN)*, Warsaw, Poland, Sep. 11 – 15, 2005. (LNCS 3697).

Book Chapters

- [B001] *Minje Kim* and Paris Smaragdis, "Efficient Source Separation Using Bitwise Neural Networks," *Audio Source Separation*, Springer International Publishing, 2018.
DOI: 10.1007/978-3-319-73031-8, ISBN: 978-3-319-73031-8 (E-book), 978-3-319-73030-1 (Hard-cover)
[\[Amazon\]](#)[\[Springer Website\]](#)

The Other Papers

- [M002] *Minje Kim* and Paris Smaragdis, "Bitwise Neural Networks," *International Conference on Machine Learning (ICML) Workshop on Resource Efficient Machine Learning*, Lille, France, Jul. 6-11, 2015
- [M001] *Minje Kim* and Paris Smaragdis, "Collaborative Audio Enhancement: Crowdsourced Audio Recording," *Neural Information Processing Systems (NIPS) Workshop on Crowdsourcing and Machine Learning*, Montreal, Canada, Dec. 8-13, 2014

9. SELECTED TALKS & POSTERS

- [Talk/Workshop] Seventh Annual Midwest Cognitive Science Conference, Bloomington, IN, May 12, 2018
- [Poster/workshop] U.S. Air Force Science and Technology 2030, Bloomington, IN, May 10, 2018
- [Invited Talk] Data Science Online Immersion Weekend, Indiana University, Bloomington, IN, Mar. 3, 2018
- [Invited Talk] Intelligent & Interactive Systems Talk Series, School of Informatics and Computing, Indiana University, Bloomington, IN, Feb. 5, 2018
- [Poster/workshop] "Bitwise Source Separation on Hashed Spectra: An Efficient Posterior Estimation Scheme Using Partial Rank Order Metrics," NIPS 2017 workshop on Machine Learning for Audio, Dec. 8, 2017
- [Poster/workshop] "Bitwise Neural Networks for Efficient SingleChannel Source Separation," NIPS 2017 workshop on Machine Learning for Audio, Dec. 8, 2017
- [Poster/workshop] IEEE EnCON, Indiana University, Bloomington, IN, Nov. 10-11, 2017

- [Invited Talk] Int'l Conf. on Parallel Architectures and Compilation Techniques (PACT) Workshop on Computational Intelligence and Soft Computing (CISC 2017), Sep. 10, 2017
- [Invited Talk] Intel Labs., Hillsboro, OR, Aug. 16, 2017
- [Talk/project] CRC Human Computer Interaction Committee Academic Project Review, Intel Corp., Hillsboro, OR, Aug. 16, 2017
- [Talk/workshop] Midwest Music and Audio Day, Northwestern University, Evanston, IL, Jun. 23, 2017
- [Talk/workshop] Applied Research Institute Sensor Fusion Workshop, Indiana University, Bloomington, IN, Jun. 2, 2017
- [Talk/workshop] Indiana University Bloomington/Bielefeld University Cognitive Interaction Technology Workshop, Indiana University, Bloomington, IN, May 17, 2017
- [Talk/workshop] IBM CIO's visit to IU, May 3, 2017
- [Talk/seminar] Department of Statistics Colloquium Series, Indiana University, Bloomington, IN, Oct. 31, 2016
- [Talk/seminar] Intelligent & Interactive Systems Talk Series, School of Informatics and Computing, Indiana University, Bloomington, IN, Oct. 31, 2016
- [Invited Talk] Graduate School of Culture Technology, KAIST, Daejeon, Korea, Oct. 7, 2016
- [Invited Talk] Graduate School of Convergence Science and Technology, Seoul National University, Suwon, Korea, Oct. 6, 2016
- [Invited Talk] Qualcomm Korea, Seoul, Korea, Oct. 6, 2016
- [Talk] Worldwide Youth in Science and Engineering (WYSE) Summer Camp: Discover Engineering, Urbana, IL, Jun. 27, 2016
- [Invited Talk] Hanyang University, Seoul, Korea, Apr. 6, 2016
- [Invited Talk] ETRI, Daejeon, Korea, Mar. 29, 2016
- [Invited Talk] Naver Labs, Seongnam, Korea, Mar. 29, 2016
- [Talk] Google, Mountain View, CA, Mar. 9, 2016
- [Talk] School of Informatics and Computing, Indiana University, Bloomington, IN, Feb. 29, 2016
- [Talk] Lyric Labs, Analog Devices, Cambridge, MA, Feb. 23, 2016
- [Talk/workshop] Coordinated Science Laboratory Student Conference, Urbana, Feb. 18-19, 2016
- [Talk] Adobe Research, San Francisco, CA, Feb. 10, 2016
- [Talk] IBM T. J. Watson Research Center, Yorktown Heights, NY, Jan. 7, 2016
- [Poster/workshop] Speech and Audio in the Northeast (SANE) Workshop, New York, NY, Oct. 22, 2015
- [Talk/seminar] Beckman Graduate Seminar, Urbana, IL, Oct. 14, 2015
- [Poster/workshop] Speech and Audio in the Northeast (SANE) Workshop, New York, NY, Oct. 24, 2013
- [Talk] Lyric Labs, Analog Devices, Cambridge, MA, Jun. 12, 2012
- [Talk/project] Department of Electrical and Computer Engineering, UIUC (with visitors from Sony, Japan), May 10, 2012
- [Poster/project] Intel Science and Technology Center – Embedded Computing (ISTC-EC) Workday, Apr. 4-5, 2012
- [Invited Talk] Sejong University, Seoul, Korea, Jun. 10, 2011

10. SELECTED PATENTS

Named in more than 50 (20 US) patent applications, 10 of which are US patents issued.

- Minje Kim et al, "Irregular Pattern Identification Using Landmark Based Convolution," US Patent Application (pending), 2013
- Minje Kim et al, "Method and System for Separating Music Sound Source Using Time and Frequency Characteristics," US Patent No. 8,563,842, 2013
- Minje Kim et al, "Method and System for Separating Music Sound Source," US Patent No. 8,340,943, 2012
- Minje Kim et al, "Method and system for separating musical sound source without using sound source database," US Patent No. 8,080,724, 2011

- Minje Kim et al, "Method and System for Unified Source Separation," Korea Patent No. 1013754320000, 2014, US Patent Application (Pending), 2011
- Minje Kim et al, "Apparatus and method for separating sound source," Korea Patent No. 1015274410000, 2015
- Minje Kim et al, "Pattern Matching of Sound Data Using Hashing," US Patent No. 9,449,085, 2016
- Minje Kim et al, "Multichannel Sound Source Identification and Localization," US Patent Application (pending), filed in 2013
- Minje Kim et al, "Sound Data Identification," US Patent No. 9,215,539, 2015.
- Minje Kim et al, "Known information compression apparatus and method for separating sound source," US Patent Application (Pending), 2011

11. EXTRACURRICULAR ACTIVITIES

- Some home recordings are available here: http://minjekim.com/ext_acts.html
- The pick of my pics: <https://goo.gl/OWvLRc>