

# 전진용

전진용은 서울캠퍼스 [공과대학 건축공학부](#) 교수이자, [건축음향연구실](#)장을 겸임하고 있다.

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## 학력

- 1994. 5, University of Sydney, Australia, PhD. In Acoustics
- 1991. 8, University of Sydney, Australia, Master of Building Science
- 1982. 2 한양대학교, 공학사

## 경력

- 1998. 3 현재 한양대학교 건축공학부 교수
- 1997. 3 1998. 2 영동대학교 공과대학 전임강사
- 1995. 3 1997. 2 Post-Doctoral Research Fellow in Univ. of Sydney
- 1993. 9 1995. 2 Research Assistant in Univ. of Sydney
- 1981.12 1988. 7 대림산업(주) 기술연구소 연구원

## 수상

- 2020, 제15회 차세대문화공간공모전 2020 '코로나시대의 뉴노멀 문화공간' 대상 수상<sup>[1]</sup>

# 연구관심분야

- 실내음향, 공연장 음향 설계, 입체음향, 건축물 소음 진동, 외부 환경소음 평가 및 제어, 심리음향 및 음질 적용 기술

## 주요연구과제

- 2022.12 (연구주제 학술발표일 기준) 기침소리 기반 폐렴 진단 AI 알고리즘 개발
- 2014.03.01 ~ 2015.08.31 원격 사용자 간 동적 상호작용을 위한 입체음향 실시간 모델링 및 렌더링 기술 개발, 한국과학기술연구원
- 2012.03.29 ~ 2015.03.28 Speech Intelligibility 및 Speech Privacy 평가를 통한 고속열차 객실 음환경 설계기술 개발, 국토해양부
- 2010.12.01 ~ 2012.08.31 자연, 인공요소의 최적 설계를 통한 지속가능한 소음 저감(EU Framework program 협력사업), 교육과학기술부
- 2010.09.01 ~ 2012.08.31 도심 사운드스케이프 평가, 교육과학기술부
- 2010.12.01 ~ 2012.11.31 사운드워킹을 통한 공공장소의 음풍경 평가, 교육과학기술부

## 주요논문

- J. Y. Jeon, I. H. Hwang, Y. H. Kim, Investigation of absorption and diffusion characteristics of organ's prospect pipes in a performing space, *Building and Environment*, Vol. 77, pp.50-60, 2014
- S. Y. Yoo, J. Y. Jeon, Investigation of the effects of different types of interlayers on floor impact sound insulation in box-frame reinforced concrete structures, *Building and Environment*, Vol. 76, pp.105-112, 2014
- P. J. Lee, J. Y. Jeon, A laboratory study for assessing speech privacy in a simulated open-plan office, *Indoor Air*, Vol. 24, pp.307-314, 2014
- P. J. Lee, J. Y. Hong, J. Y. Jeon, Assessment of rural soundscape with high speed train noise, *Science of the Total Environment*, Vol. 482-483, p.p.432-439, 2014
- J. Y. Jeon, I. H. Hwang, J. Y. Hong, Soundscape evaluation in catholic cathedral and buddhist temple precincts through social surveys and soundwalks, *Journal of the Acoustical Society of America*, Vol. 135, pp.1863, 2014
- J. Y. Hong, J. Y. Jeon, The effects of audio-visual factors on perceptions of environmental noise barrier performance, *Landscape and Urban Planning*, Vol.125, pp.28-37, 2014
- P. W. Robinson, J. Patynen, T. Lokki, H. S. Jang, J. Y. Jeon, N. Xiang, The role of diffusive architectural surfaces on auditory spatial discrimination in performance venues, *Journal of the Acoustical Society of America*, Vol.113, No.6, pp.3940-3950, 2013
- J. Y. Jeon, J. Y. Hong, P. J. Lee, Soundwalk approach to identify urban soundscapes individually, *Journal of the Acoustical Society of America*, Vol.134, No.1, pp.803-812, 2013
- J. Y. Hong, J. Y. Jeon, Designing sound and visual components for enhancement of urban soundscapes, *Journal of the Acoustical Society of America*, Vol.134, No.1, pp.803-812, 2013
- P. J. Lee, J. Y. Jeon, Relating traffic, construction, and ventilation noise to cognitive performances and subjective perceptions, *Journal of the Acoustical Society of America*, Vol.134, No.4, pp.2765-2772, 2013

- J. H. Kim, J. Y. Jeon, Effect of temporal decay on perception of heavy-weight floor impact sounds, *Journal of the Acoustical Society of America*, Vol.134, No.4, pp.2730-2738, 2013
- J. Y. Jeon, C. K. Seo, Y.H. Kim, P. J. Lee, Wall diffuser designs for acoustical renovation of small performing spaces, *Applied Acoustics* , Vol.73, No.8, pp.828-835, 2012
- J. Y. Jeon, P. J. Lee, J. You, J. Kang, Acoustical characteristics of water sounds for soundscape enhancement in urban open spaces, *Acoustical Society of America*, Vol.131, No.3, pp.2101-2109, 2012
- J. Y. Jeon, J.H. Kim, C. K. Seo, Acoustical remodeling of a large fan-type auditorium to enhance sound strength and spatial responsiveness for symphonic music, *Applied Acoustics*, Vol.73, No.11, pp.1104-1111, 2012
- S.H. Seo, S.Y. Yoo, J. Y. Jeon, Optimized floor design for heavy-weight impact vibration reduction in apartment buildings, *Noise Control Engineering Journal*, Vol.60, No.5, pp.539-547
- J. Y. Jeon, P. J. Lee, and J. Y. Hong, Non-auditory factors affecting urban soundscape evaluation, *Journal of the Acoustical Society of America*, Vol. 130, No.6, pp.3761-3770, 2011.
- Y. H. Kim, J. H. Kim, and J. Y. Jeon, Scale model investigations of diffuser application strategies for acoustical design of performance venues, *Acta Acustica United with Acustica*, Vol.97, No.5,pp.791-799, 2011.
- Y. H. Kim, H. S. Jang, and J. Y. Jeon, Characterizing diffusive surfaces using scattering and diffusion coefficients, *Applied Acoustics*, Vol.72, No.11, pp. 899-905, 2011.
- P. J. Lee and J. Y. Jeon, Evaluation of speech transmission in open public spaces affected by combined noises, *Journal of the Acoustical Society of America*,Vol.130, No.1, pp.219-227, 2011.
- J. K. Ryu, and J. Y. Jeon, Influence of noise sensitivity on annoyance of indoor and outdoor noises in residential buildings, *Applied Acoustics*, Vol.72, pp.336-340, 2011.
- J. Park, S. J. Kim, J. Park, S. Y. Yoo, and J. Y. Jeon, Measurements of dynamic properties of concrete structures using flexural wave propagation characteristics, *Mechanics Research Communications*, Vol.38, No.2, pp.101-105, 2011.
- J. Y. Jeon, J. You, C. I. Jeong, S. Y. Kim, and M. J. Jho, Varying the spectral envelope of air-conditioning sounds to enhance indoor acoustic comfort, *Building and Environment*, Vol.46, No.3,pp.736-746, 2011.
- B. Park, J. Y. Jeon, and J. H. Park, Force generation characteristics of standard heavyweight impact sources used in the sound generation of building floors, *Journal of the Acoustical Society of America*, Vol.128, No.6, pp.3507-3512, 2010.
- J. You, P. J. Lee, and J. Y. Jeon, Using water sounds to mask the noise of urban traffic, *Noise Control Engineering Journal*, 58(5), pp.477-483, 2010.
- J. Y. Jeon, J. K. Ryu, and P. J. Lee, A quantification model of overall dissatisfaction with indoor noise environments in residential buildings, *Applied Acoustics*, Vol.71, No.10, pp.914-921, 2010.
- P. J. Lee, M. H. Shim, and J. Y. Jeon, Effects of different noise combinations on sleep as assessed by a general questionnaire, *Applied Acoustics*, Vol.71, No.9, pp.870-875, 2010.
- S. Y. Yoo, P. J. Lee, and J. Y. Jeon, Measurement of sound field for floor impact sounds generated by heavy/soft impact sources, *Acta Acustica United with Acustica*, Vol. 96, No. 4, pp.761-772(12), 2010.
- Y. H. Kim, H. M. Lee, C. K. Seo, and J. Y. Jeon, Investigating the absorption characteristics of open ceilings in multi-purpose halls using a 1:25 scale model, *Applied acoustics*, Vol.71, No.5, pp.473-478, 2010.
- J. Y. Jeon, P. J. Lee, J. You, and J. Kang, Perceptual assessment of quality of urban

soundscapes with combined noise sources and water sounds, Journal of the Acoustical Society of America, Vol.127, No.3, pp.1357-1366, 2010.

## 저서

- '도시 사운드스케이프 디자인' (2017 세종도서 선정)

## 언론 활동

1. ↑ <뉴스H> 2020.11.16 [전진용 교수, 제15회 차세대문화공간공모전 2020에서 대상](#)