

Joo-Young LEE



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1. Education and Career

- 2016.9 ~ Present Associate Professor**
COM:FORT Laboratory, Department of Textiles, Merchandising and Fashion Design, College of Human Ecology, Seoul National University (Korea)
- 2016.9 ~ Present Vice-President**
Graphene-interdisciplinary research center, Advanced Institute of Convergence Technology (AICT) (Korea)
- 2012.3 ~ 2016.8 Assistant Professor**
COM:FORT Laboratory (Laboratory for Clothing and Omnicare for Thermoregulation), Department of Clothing and Textiles, College of Human Ecology, Seoul National University (Korea)
- 2008.5 ~ 2012.2 Post-doctoral fellow**
Environmental Ergonomics Laboratory, Department of Human Science, Kyushu University (JAPAN)
- 2007.8 ~ 2008.4 Post-doctoral fellow**
Laboratory for Health and Human Performance in Extreme Environments, Department of Integrative Biology and Physiology, University of Minnesota (USA)
- 2006.9 ~ 2007.8 Post-doctoral fellow**
Laboratory for Health and Human Performance in Extreme Environments, Department of Kinesiology, University of Minnesota (USA)
- 2005.3 ~ 2006.7 Post-doctoral fellow**
Functional Clothing Laboratory, Department of Clothing and Textiles, Seoul National University (Korea)
- 1999.3 ~ 2005.2 Ph. D**
Department of Clothing and Textiles, Seoul National University (Korea)
- 1997.3 ~ 1999.2 M.S**
Department of Clothing and Textiles, Seoul National University (Korea)
- 1992.3 ~ 1997.2 B.S**
Department of Home Economics (1st Major), Department of Clothing and Textiles (2nd Major), Seoul National University (Korea)

2. Master's thesis and Ph.D. Dissertation

Ph.D. Year 2005 A Study on the Body Surface Area of Korean Adults (*In English*)

M.S. Year 1999 Effects of Clothing Weight on Human Energy Metabolism at 19°C (*In Korean*)

3. Honors

- (26) Dec 7, 2019 Presentation Award at the Fall Conference of the Society of Living-Environment System (WJ Seo, YJ Baek, JY Lee)
- (25) Sept 27, 2019 Presentation Award at the International Conference on Physiological Anthropology (Y Ko, SH Seol, JH Kang, JY Lee)
- (24) June 2, 2019 Distinguished Paper Award 2018 of 'Journal of Physiological Anthropology', Japan Society of Physiological Anthropology (JY Lee)
- (23) May 21, 2019 국가기후환경회의 피해예방위원회 전문위원 위촉 (JY Lee)
- (22) Apr 26, 2019 Presentation Award at the Spring Conference of the Korean Society of Community Living Science (JH Kang, SH Seol, Y Ko, JY Lee)
- (21) Dec 1, 2018 Presentation Award at the Fall Conference of the Society of Living-Environment System (Y Ko, KJ Hur, GR Kim, JY Lee)
- (20) Oct 27, 2017 Presentation Award at the Fall Conference of the Korean Society of Community Living Science (JH Park, YJ Baek, SH Roh, JY Lee)
- (19) Apr 21, 2017 2017 Outstanding Paper Award, The Society of Living-Environment System, Korea (JY Lee)
- (18) Apr 15, 2017 Presentation Award at the Spring Conference of the Korean Society of Clothing and Textiles (YB Kim, SH Roh, JE Lee, JH Sohn, JY Lee)
- (17) Feb 10, 2017 2017 Leading Young Scientists Award, The Korean Academy of Science and Technology (KAST) (JY Lee)
- (16) Oct 14, 2016 Presentation Award at the Fall Conference of the Korean Society of Community Living Science (DH Kim, JY Lee)
- (15) April 22, 2016 2016 Outstanding Paper Award, The Society of Living-Environment System, Korea (JY Lee)
- (14) May 29, 2015 Presentation Award at the Spring Conference of the Korean Society of Human Ecology (J Park, YJ Jang, S Kim, JY Ha, SR Shin, JY Lee)
- (13) April 18, 2015 Presentation Award at the Spring Conference of the Korean Society of Clothing and Textiles (S Kim, JY Lee)
- (12) Dec 5, 2014 Poster Award at the Forum on Climate Changes and Health Effects (YJ Baek, SR Shin, JY Lee)
- (11) April 18, 2014 2013 Outstanding Paper Award, Journal of the Society of Living-Environment

- System, Korea (Kim S, Lee JY)
- (10) Dec 5, 2013 2013 Leading Young Scientists Award, The Korean Academy of Science and Technology (KAST) (Lee JY)
- (9) April 2, 2013 Poster Award at the Fall Conference of the Korean Society of Clothing and Textiles (Kim S, Jang Y, Baek YJ, Lee JY)
- (8) Feb 15, 2013 Poster Award at the 15th International Conference on Environmental Ergonomics. Paper title: Finger cold induced vasodilation at different four phases of a circadian rhythm (Kim S, Jeon HS, Park JH, Lee HH, Park JH, Lee JY)
- (7) Dec, 2012 2012 Outstanding Paper Award. International Journal of Clothing Science and Technology: Paper Title 'Validation of clothing insulation estimated by global and serial methods' 23(2/3), 184-198, 2011 (JY Lee)
- (6) Oct, 2011 2011 Outstanding Paper Award. Japanese Society of Human-Environment System. Paper title 'Estimation of regional body surface area covered by clothing', 12(1), 35-45, 2009 (JY Lee)
- (5) Dec, 2008 Award in 'JSPS Postdoctoral Fellowship for Foreign Researchers' of Japan Society for the Promotion of Science (No. P09128) <Development of non-invasive and reliable measurements to estimate/evaluate heat strain and the workload of workers wearing personal protective equipment (PPE) in hot environments> (JY Lee)
- (4) Sep, 2006 'Fellowship for post-doctoral researchers' of Korea Research Foundation (No. C00103) (JY Lee)
- (3) April, 2005 'Fellowship for domestic post-doctoral researchers' of Korea Research Foundation (No. C00228) (JY Lee)
- (2) Sep, 2003 'Fellowship for young researchers' of Korea Research Foundation Subject: <A Study on the Body Surface Area of Korean Adults > (No. C00052) (JY Lee)
- (1) Feb, 1997 Graduation with honors from the department in SNU (*Summa Cum laude*) (JY Lee)

4. Projects Involved

**Principle Investigator (PI, 연구책임자)*

- (57) Mar 2020~Oct 2020 소방장비 표준규격 개발사업. 한국소방산업기술원 자문 과제 (**Lee JY***)
- (56) Apr 2020~Dec 2023 근접공조의 감성만족 효과 증진을 위한 xEV 탑승자 열쾌적성 관리 기술 개발 (Development of human thermal comfort model for passengers in an electric vehicle). 한국산업기술평가원 (**Lee JY***)
- (55) May 2020~Nov 2020 폭염 대응 및 인공지능 활용 기술 개발(Ⅲ) 중 " 인지도모델 최적화를 위한 한국인 성인 남성의 열 스트레스 정량화(Ⅲ). 국립기상과학원 (시험평가용역사업) (**Lee JY***)
- (54) May 2020~Feb 2021 보건용 마스크의 안전관리 평가기술 개발 연구. 식품의약품안전처 (시험평가용역사업) (**Lee JY***)
- (53) Apr 2020~Mar 2021 방진마스크 사용자 호흡편이상 및 밀착성능 개선을 위한 실험연구 및 기초자료조사. (주) 에이제이 (**Lee JY***)
- (52) Oct 2019~Dec 2019 수분율 향상 Cotton 과 Tencel Knit 원단으로 제작된 의복의 열저항과 수분저항 측정. (주)우성염직제 2 공장 (**Lee JY***)
- (51) Nov 2019~Nov 2019 ICT 스마트 섬유 및 웨어러블 제품의 성능 및 사용성 평가. 한국생산기술연구원 (시험평가용역사업) (**Lee JY***)
- (50) Sept 2019~July 2020 상용기술을 적용한 전투복 성능향상 방안 연구. 국방기술품질원 (시험평가용역사업) (**Lee JY***)
- (49) Sept 2019~Dec 2019 Aerogear 인체착용효과 (Evaluation of 'Aerogear' wear on physiological responses). 효성티앤씨 (**Lee JY***)
- (48) Aug 2019~Jan 2020 여름철 폭염 경보 시 도시 실외 작업자 고체온증 예방을 위한 개별 모니터링 알고리즘 개발 (Developing an algorithm for preventing workers' hyperthermia through individual monitoring under heat waves in summer), 한국연구재단 Brain Pool program (**Lee JY***)
- (47) June 2019~Nov 2019 폭염 대응 및 인공지능 활용 기술 개발 관련 사업(II) 중 "온도모델 최적화를 위한 한국인 성인남성의 열스트레스 정량화 (Body heat production during summer and heat strain change after heat acclimation). 국립기상과학원 (**Lee JY***)
- (46) June 2019~Dec 2019 쾌적 수면 환경 조성을 위한 침대 매트리스 조건별 수면의 질 평가. 한국생산기술연구원 (**Lee JY***)
- (45) Mar 2019~Feb 2022 여름철 폭염 환경 하 개인보호복 수준에 따른 작업자들의 서열부담 정량화 및 비침습적 인체 서열부담지표 개발 Quantifying Workers' Heat Strain According to Personal Protective Clothing Level under Heat Waves in Summer and Development of Non-Invasive Heat Strain Index. 한국연구재단 중견연구 (**Lee JY***)

- (44) Nov 2018~Nov 2018 고혈압 환자 대상 손목 밴드 타입 웨어러블 혈압계의 타당도 평가. (주) 파트론 (**Lee JY***)
- (43) July 2018~Sept 2018 쾌적 수면 중 LG 콧속형 체온계의 타당도 평가, (주) LG 전자 (**Lee JY***)
- (42) Apr 2018~Nov 2018 폭염 대응 및 인공지능 활용 기술 개발 관련 사업 중 "온도모델 최적화를 위한 한국인 성인남성의 열스트레스 정량화 II Qualification of heat stress of Korean adult males for the optimization of perceived temperature model. 국립기상과학원 (**Lee JY***)
- (41) Apr 2017~Nov 2017 인지온도모델 최적화를 위한 한국인 성인남성의 열스트레스 정량화
Qualification of heat stress of Korean adult males for the optimization of perceived temperature model. National Institute of Meteorological Science (**Lee JY***)
- (40) Aug 2016~July 2021 고기능성 그래핀 섬유기반 직물복합체 제조 및 통합디자인 개발 Integrated design and fabrication of textiles composites based on graphene fibers, Ministry of Science, Korea (2016M3A7B4910) (**Lee JY***)
- (39) Aug 2016~Dec 2016 의복의 쾌적지표인 보온성에 대한 등급 표준화 Standardization on the class of thermal insulation as a comfort index of clothing. Korean Agency for Technology and Standards, KATS (2016-146) (**Lee JY***)
- (38) Dec 2015~Dec 2018 극한환경하 돌발 고위험 상황 긴급대응 보호장구 소재 활용기술 개발 Development of personal protective equipment for accidentally high risk circumstances under extreme situations. Ministry of Public Safety and Security (**Lee JY***, Co-PI)
- (37) Nov 2015~Nov 2018 소방활동 개인보호장비의 성능한계분석 및 안전성 평가기법 연구 Test methods for assessing the safety and performance limit of firefighter protective equipment. Ministry of Public Safety and Security (**Lee JY***)
- (36) July 2015~Jun 2017 보급형 소방용 방화 두건과 소방용 보호 장갑의 착용성능평가기술 개발 Development of test methods of fire fighters' protective hood and gloves based on ergonomic designs, National Research Foundation, Korea (**Lee JY***, Co-PI)
- (35) June 2015~Dec 2015 제주도의 자연과 문화, 산업의 환경 적응력 향상을 위한 연구기획, 서울대학교 융복합 연구기획 과제 (**Lee JY***)
- (34) Apr 2015~Nov 2015 제주 해녀의 내한성: 장기간 말단 부위 추위노출과 고령의 영향, 한국한의학연구원 (**Lee JY***)
- (33) Oct 2014~July 2016 Environmental-ergonomic evaluation of Korean navy uniforms which are worn on aircraft carriers. Ministry of National Defense, Korea (**Lee JY***, Co-PI)

- (32) May 2014~Nov 2014 여성친화형 3D 허리보호의복의 설계환성분석을 위한 기초연구, 한국여성과학기술단체총연합회 과학기술인 역량강화사업 (Hong KH*, lee JY)
- (31) Jun 2014~May 2017 한반도 이상기후 변화에 대한 체온조절 취약계층의 추위 더위 교차적응 프로그램 개발 Climate change and cross adaptation to cold and heat of Koreans. National Research Foundation, Korea (**Lee JY***)
- (30) May 2014~Apr 2016 Thermal tolerance to the heat and cold of Koreans: revisited. Seoul National University, Korea (**Lee JY***)
- (29) Apr 2014~Oct 2014 동하절기 온맵시 쿨맵시를 활용한 건강온도 지키기 캠페인, 에너지관리공단 민간단체 협력사업 (주관연구기관 기후변화행동연구소, 위탁자문 건강의복연구회)
- (28) Apr 2014~Dec 2016 농약방제용 개인보호장비의 보호성능기준 시험법 규격화 연구 Standard test method for the protective performance of pesticide personal protective equipment. Rural Development Administration, Korea (**Lee JY***)
- (27) Dec 2013~Nov 2014 제주해녀, 그 삶의 환경생리학적 보고 Environmental-physiological study on Korean women divers (Hae-Nyeo) in Jeju. Ministry of Education, Korea (**Lee JY***)
- (26) 2013~2019 의류 · 패션 전문 창조인재 양성팀 (Incubator for creative talents in clothing and fashion) 한국연구재단 BK21 플러스사업, (사업팀장 남윤자*, 참여교수 이주영)
- (25) Aug 2013 ~ Dec 2013 인간중심 생활과학 융합 연구를 위한 의류학 분야 유망 연구 과제 도출. 한국연구재단 기초연구사업 연구회 지원사업 (권수애*, 참여연구원 이주영)
- (24) July 2013~June 2015 소방관 보호 및 서열장해 예방을 위한 스마트 소방복 착용평가의 국제표준 개발 Development of international standards on the test methods of smart personal protective equipment to prevent heat strain and injuries of fire fighters. Korean NEMA (**Lee JY***)
- (23) May 2012~Apr 2013 서열 스트레스 동안 심부 및 피부온도 반응에서 인체 일주기 리듬에 따른 Law of Initial Value (LIV) 의 평가 Evaluation of Law of *Initial Value (LIV)* according to human circadian rhythm in core and skin temperatures during heat stress. Seoul National University, Korea (**Lee JY***)
- (22) Apr 2013~May 2013 천연/합섬 복합소재를 이용한 산업안전 보호복의 소재 및 디자인 적합성 평가. (주) 피앤티디 (이주영_ 산학협력 위탁연구)
- (21) May 2012~Apr 2013 소방용 개인보호장비의 경량화가 소방대원의 심혈관계 및 서열 부담 경감에 미치는 영향 The effects of lightening personal protective equipment (PPE) on the alleviation of the cardiovascular

- and heat strains of fire fighters. Seoul National University, Korea
(**Lee JY***)
- (20) June 2010~Jan 2012 보호복을 착용하는 소방대원의 서열부담 및 동작적응능 평가를 위한 표준 테스트 방법의 개발 Development of a standard test method for evaluation of heat strain and mobility of firefighters wearing protective clothing. Japanese Fire and Disaster Management Agency, Japan (Tochihara Y*)
- (19) Apr 2009~Jan 2012 Ethnic comparison of heat acclimatization between tropical and Japanese natives. JSPS, Japan (Tochihara Y*)
- (18) Apr 2009~Apr 2011 Non-invasive thermal indexes for workers wearing personal protective clothing. JSPS, Japan (**Lee JY***)
- (17) Apr 2009~Apr 2011 Comparison of heat acclimatization between indigenous Malaysian and Japanese during passive and active warming. JSPS, Japan (Tochihara Y*)
- (16) Nov 2008~Dec 2008 Rectal temperature by the depth of insertion during rest and exercise. Kyushu University, Japan (Tochihara Y*)
- (15) Apr 2008~Aug 2008 Effects of local thermal radiation on thermal regulation. Nagasaki, Kyushu University, Japan (Tochihara Y*)
- (14) June 2007~Apr 2008 Test and evaluation of liquid cooling garments NASA, USA (Koscheyev VS*)
- (13) Dec 2006~June 2007 Comparison of the effectiveness of specific body zone cooling to stabilize comfort of athletes exercising at different intensity levels. Jack and Gretchen Norqual Foundation, USA (Koscheyev VS*)
- (12) Aug 2006~Dec 2006 Comfort support in EVA and crew escape suits: physiologically based warming gloves for a unified cooling/ warming system. NASA, USA (Koscheyev VS*)
- (11) Mar 2005~July 2006 Study on factors related to the thermal insulation of clothing – measurement using a thermal manikin and human. National Research Foundation, Korea (Choi JW*)
- (10) Sep 2003~Aug 2004 Floor heating system (Ondol) and the bed climate of Koreans. Seoul National University, Korea (Choi JW*)
- (9) June 2001~May 2002 A study of functional clothing made from non-fabrics: Lab gowns and coveralls for workers. Yuhan-Kimberly Corp. (Choi JW*)
- (8) May 2001~Feb 2002 Skin temperature and thermal comfort indoors in winter, by age and gender. Kyobo Foundation for Education & Culture, Korea (Kim MJ*)
- (7) Sep 1999~Sep 2004 Basic study for the promotion of industries related to functional sportswear. Korea Science & Engineering Foundation, Korea (Choi

JW*)

- (6) Sep 1999~Sep 2002 Study for improving value added clothing in Korea (Brain Korea 21). Ministry of Education & Human Resources Development, Korea (Choi JW*)
- (5) Nov 1999~Nov 2002 Studies of the development of personal protective equipment to alleviate heat and cold disorders in farm workers. Ministry of Agriculture & Forestry, Korea (Choi JW*)
- (4) July 1999~July 2000 Development of cool vests for workers in hot environments. Hyupwoo Corp., Korea (Choi JW*)
- (3) Mar 1999~ Dec 2000 The effects of a rural living environment on farmer's health. Rural Development Administration, Korea (Choi JW*)
- (2) Feb1998~ Feb 2000 Distribution of cutaneous cold and warm receptors of urban dwellers and farmers. Korea Science & Engineering Foundation, Korea (Choi JW*)
- (1) Mar 1997~Nov 1998 Study on work environment in rural areas and the workload of rural workers. National Research Foundation, Korea (Choi JW*)

5. Paper Publications

*Corresponding author

(126) Ko Y, Seol SH, Kim GH, Yu HH, **Lee JY*** (2020) Effects of cold exposure discontinuation on finger cold-induced vasodilation of older retired Korean female divers 'Haenyeos'. *Journal of Thermal Biology* (In press)

(125) **이주영***, 박준희, 백윤정, 정다희, 고예린, 정재연, 강주호, 이태경, 이에진, 송은영, 손수영, 권주연, 김선화 (2020) 미세먼지 고농도 시준 방진용 마스크에 관한 인식과 착용 행동에서 전국 지역별 차이 및 성차. *한국의류학회지* (In press)
Regional and Sex Differences in Cognition and Wear Behavior Concerning Fine-dust Protective Masks during High Concentration Days. *Journal of the Korean Society of Clothing and Textiles* (In Korean)

(124) 정재연, 강주호, 설선홍, **이주영*** (2020) 여름철 작업자들의 고체온증 예방을 위한 액체냉각복 개발 및 효과적인 냉각 온도와 인체 냉각부위 탐색. *한국의류산업학회지* 22(2), 250-260
Developing liquid cooling garments to alleviate heat strain of workers in summer and exploring effective cooling temperatures and body regions. *Fashion & Textile Research Journal* 22(2), 250-260 (In Korean)

(123) 박준희*, 황수경, **이주영** (2020) 고령 남녀의 겨울철 품목별 착용실태와 한 벌 의복의 보온력. *한국생활환경학회지* 27(2), 161-173
Elderly male' and female's actual wearing condition by clothing item and clothing ensemble insulation in winter. *Journal of The Korean Society of Living Environmental System* 27(2), 161-173 (In Korean)

(122) 백윤정, 서원지, 김형찬, **이주영***(2020) 원적외선 방사 기능 실내복 착용이 인체 피부혈류량, 온열 심리 및 온열 생리 기능에 미치는 영향. *한국의류학회지* 44(2), 342-353
Influences of wearing far-infrared indoor clothing on skin blood flow, perceptual and thermal responses. *Journal of the Korean Society of Clothing and Textiles* 44(2), 342-353 (In Korean)

(121) Ko Y, Seol SH, Kang J, **Lee JY*** (2020) Adaptive Changes in Physiological and Perceptual Responses during 10-day Heat Acclimation Training Using a Water-perfused Suit. *Journal of Physiological Anthropology* 39, 1-11

(120) Ko Y, Shin S, Choi Y, Hong B, Park S, **Lee JY*** (2020) Thermal effects of copper-graphene composite films in a human skin analogous for the application to clothing. *International Journal of Clothing Science and Technology* (E-pub ahead-of-print)

(119) Kim DH, Bae GT, **Lee JY*** (2020) A novel vest with dual functions for firefighters: combined effects of body cooling and cold fluid ingestion on the alleviation of heat strain. *Industrial Health* 58, 91-106

(118) Roh SH, Ko Y, **Lee JY*** (2019) Physiological and subjective burden when wearing fire protective boots between 3.2 to 5.3 kg. *Fashion & Textiles* 7, 14

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- (11) Choi JW, Kim MJ, **Lee JY***. Evaluation of cooling vests for alleviating heat strain of farm workers in summer. *Korean Journal of Clothing & Textiles*, 29(8): 1176–1187. (In Korean)
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- (5) Choi JW, Kim SY*, **Lee JY**. A survey on the actual wearing condition of lab gowns. *Journal of the Korean Society of Clothing and Textiles*, 28(1): 172–181. (In Korean)
- (4) Choi JW*, **Lee JY**, Kim SY. Effect of thermal underwear on thermal and subjective responses in winter. *Journal of Physiological Anthropology*, 22(1): 29–36.
- (3) Choi JW, Kim MJ, **Lee JY***. Evaluation of farmer's workload and the thermal environments during grape harvest in summer. *Journal of Korean Home Economics Association*, 40(11): 193–205. (In Korean)
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6. Proceedings and Abstracts

A total of 255 presentations at international and domestic conferences

http://comfortlab.snu.ac.kr/html/community/research_acticles.asp?b_code=v1c

7. Invited Speech

(57) 2019.10.2

- ◆ 강연제목: Personal Protective Clothing and Work Rates under Extreme Heat Stress
- ◆ 장소: The Waterfront Hotel Kuching (Sarawak, Malaysia)
- ◆ 주최: International Conference Association MoHE 2019
- ◆ 행사명: The 6th International Conference on Movement, health and Exercise (MoHE) 2019

(56) 2019.9.28

- ◆ 강연제목: Thermal effects of graphene and its application to clothing
- ◆ 장소: Nara Kasugano International Forum (Nara, Japan)
- ◆ 주최: Japan Research Association for Textile End-Uses
- ◆ 행사명: Comfort and Smart Textile International Symposium 2019

(55) 2019.7.3

- ◆ 강연제목: 더위 추위 스트레스에 대한 체온조절 및 피부 민감도
- ◆ 장소: 현대자동차그룹 의왕연구소 교육센터
- ◆ 주최: 현대자동차그룹 의왕연구소
- ◆ 행사명: 2019 현대자동차 R&D 연구위원 기술포럼-통합열관리분야

(54) 2019.5.31

- ◆ 강연제목: Clothing, thermoregulation and climate change
- ◆ 장소: University of Tsukuba, Japan
- ◆ 주최: University of Tsukuba (Prof. Naoto Fujii)
- ◆ 행사명: 초청 세미나

(53) 2019.5.30

- ◆ 강연제목: Safety and health in Extreme Environments
- ◆ 장소: Niigata University, Japan
- ◆ 주최: Niigata University (Prof. Tatsu Amano)
- ◆ 행사명: 초청 세미나

(52) 2019. 5.8

- ◆ 강연제목: 피복류 쾌적성 및 보온력 실험 결과
- ◆ 장소: 육군, 계룡대, 한국
- ◆ 주최: 육군 군참부
- ◆ 행사명: 2019년 육군 전투피복 개선 방향 설정을 위한 군산학연 합동 세미나

(51) 2019.2.23

- ◆ 강연제목: 기후변화와 오타와 대학교의 Human Environmental Physiology Research Unit 관련 연구소개.
- ◆ 장소: 서울대학교, 서울, 한국
- ◆ 주최: 건강의복연구회
- ◆ 행사명: 71차 세미나

(50) 2017.12.13

- ◆ 강연제목: 의복과건강 연구소개 및 해양작업자 안전건강
- ◆ 장소: 서울대학교, 서울, 한국
- ◆ 주최: 서울대학교 해양학과
- ◆ 행사명: 해양생물공학비전 2030 워크숍

(49) 2017.9.27

- ◆ 강연제목: 기후변화 극한기온 위험관리
- ◆ 장소: 한국보건복지인력개발원, 오송, 한국
- ◆ 행사명: 기후변화대응 건강관리과정 (제 2기)

(48) 2017.9.13

- ◆ 강연제목: 의복과 건강_스마트웨어로의 진화
- ◆ 장소: 서울대학교, 한국
- ◆ 주최: 서울대학교 패션산업 최고경영자 과정 (제 17기)
- ◆ 행사명: 서울대학교 패션산업최고경영자과정 교육

(47) 2016.11.16

- ◆ 강연제목: 소방관 안전과 개인보호복
- ◆ 장소: 서울대학교 의과대학, 한국
- ◆ 주최: 서울대학교 임상의과학대학원
- ◆ 행사명: 재난의학총론 (특수재난의학) 수업 특강

(46) 2016.11.08

- ◆ 강연제목: 고령과 건강한 의생활_건강한 겨울나기
- ◆ 장소: 관악구 다문화가족지원센터 4층 교육실, 한국
- ◆ 주최: 서울대학교 생활과학연구소
- ◆ 행사명: 생활과학연구소 연구성과 사회환원촉진 프로그램

(45) 2016.10.17

- ◆ 강연제목: 극한 환경에서의 의복과 서열부담
- ◆ 장소: 국립기상과학원 (제주 서귀포시)
- ◆ 주최: 국립기상과학원
- ◆ 행사명: 국립기상과학원 세미나

(44) 2016.9.23

- ◆ 강연제목: Thermal tolerance, ageing, and climate change in Korea
- ◆ 장소: UNIST, 한국
- ◆ 주최: UNIST
- ◆ 행사명: Anthropological and Physiological Research on Human Living in Modern Society of the East Asia

(43) 2016.9.7

- ◆ 강연제목: 의복과 건강_스마트웨어로의 진화
- ◆ 장소: 서울대학교, 한국
- ◆ 주최: 서울대학교 패션산업 최고경영자 과정 (제 16기)
- ◆ 행사명: 서울대학교 패션산업최고경영자과정 교육

(42) 2016.8.19

- ◆ 강연제목: 소방보호구 개발의 필요성 (*발표: 김도희 박사)
- ◆ 장소: 한림대학교 한강성심병원, 서울
- ◆ 주최: 한림대학교 강남성심병원, 한강성심병원
- ◆ 행사명: 소방관 화상 심포지엄

(41) 2016.8.19

- ◆ 강연제목: 여름철 서열적응과 건강한 의생활
- ◆ 장소: 대구수성관광호텔 (수성못), 한국
- ◆ 주최: 대구국제폭염대응포럼 조직위원회
- ◆ 행사명: 대구국제폭염대응포럼

(40) 2016.7.5

- ◆ 강연제목: 고령과 건강한의생활
- ◆ 장소: 관악구 다문화가족지원센터 4층 교육실, 한국
- ◆ 주최: 서울대학교 생활과학연구소

- ◆ 행사명: 생활과학연구소 연구성과 사회환원촉진 프로그램

(39) 2016.6.30

- ◆ 강연제목: 소방용 개인보호복 통합디자인과 동작적합성 평가
- ◆ 장소: 숙명여자대학교, 한국
- ◆ 주최: 한국의류학회 의류설계생산분과
- ◆ 행사명: 한국의류학회 의류설계생산분과 하계워크숍

(38) 2016.6.10

- ◆ 강연제목: 소방관의 서열부담과 개인보호복
- ◆ 장소: 서울대학교, 한국
- ◆ 주최: 서울대학교 의복과건강연구실
- ◆ 행사명: Emergency Service Workers의 안전과 건강 심포지엄

(37) 2016.4.22

- ◆ 강연제목: 기후변화적응으로서의 내한내열성 증진 훈련
- ◆ 장소: 서울대학교, 한국
- ◆ 주최: 한국지역사회생활과학회, 한국생활환경학회
- ◆ 행사명: 한국지역사회생활과학회, 한국생활환경학회 공동춘계학술대회

(36) 2016.2.5~6

- ◆ 강연제목: Clothing factor and WBGT
- ◆ 장소: Kyushu University, Japan
- ◆ 주최: Kyushu University, Japan
- ◆ 행사명: 의복의 보온성 평가기준 개선 세미나

(35) 2016.1.4

- ◆ 강연제목: 겨울철 고령자의 건강한 의생활
- ◆ 장소: 서울
- ◆ 주최: 서울대학교 생활과학연구소
- ◆ 행사명: 서울대학교 생활과학연구소 관악복지강좌

(34) 2015.12.17

- ◆ 강연제목: 제주해녀연구소개
- ◆ 장소: 서울
- ◆ 주최: 서울대학교 제주융복합기획연구회
- ◆ 행사명: 서울대학교 제주융복합기획연구포럼

(33) 2015.11.19

- ◆ 강연제목: Heat strain index using physiological parameters while wearing personal protective equipment: biomonitoring technology
- ◆ 장소: 제주
- ◆ 주최: 한국감성과학회
- ◆ 행사명: 한국감성과학회 추계국제학술대회

(32) 2015.11.12

- ◆ 강연제목: 소방관 보호 및 서열장해 예방을 위한 비침습적 생리지표 개발
- ◆ 장소: 원광대학교 (전라북도 익산시)
- ◆ 주최: 한국화재소방학회
- ◆ 행사명: 한국화재소방학회 소방R&D성과발표

(31) 2015.9.18

- ◆ 강연제목: 직업안전보건과 의류과학
- ◆ 장소: 서울대학교 (한국)
- ◆ 주최: 대한가정학회
- ◆ 행사명: 대한가정학회 추계세미나

(30) 2015.6.17

- ◆ 강연제목: 스마트웨어의 개발 및 전망
- ◆ 장소: 서울대학교 생활과학대학 최병오홀
- ◆ 주최: 서울대 패션산업고위자과정
- ◆ 행사명: 서울대 패션산업고위자과정 AFB 강의

(29) 2015.5.29

- ◆ 강연제목: 소방관의 서열부담 감소 및 고체온증 예방 대책
- ◆ 장소: 충남대학교, 한국
- ◆ 주최: 한국생활과학회
- ◆ 행사명: 한국생활과학회 춘계학술대회 (초청특강)

(28) 2015.5.14

- ◆ 강연제목: 고령자의 체온조절과 건강한 의생활
- ◆ 장소: 서울대학교 간호대학, 한국
- ◆ 주최: 서울대학교 간호대학
- ◆ 행사명: 서울대학교 간호대학 특강

(27) 2015.4.25

- ◆ 강연제목: 개인보호복 개발 및 성능평가 전문인의 역할
- ◆ 장소: 연세대학교 삼성관 최이순 홀, 한국
- ◆ 주최: 대한가정학회
- ◆ 행사명: 대한가정학회 제68차 춘계학술대회

(26) 2015.04.16

- ◆ 강연제목: 소방관 보호 및 서열장해 예방을 위한 스마트 소방복 착용평가의 국제표준 개발 (소방R&D사업단 우수성과 발표회)
- ◆ 장소: 서울시립대학교
- ◆ 주최: 한국화재소방학회
- ◆ 행사명: 한국화재소방학회 춘계학술대회

(25) 2015.4.8

- ◆ 강연제목: Non-invasive heat strain index for firefighters
- ◆ 장소: Seoul national University, Korea
- ◆ 주최: 서울대학교 의류학과 의복과 건강 연구실
- ◆ 행사명: International Symposium on Firefighters and Heat Strain

(24) 2015.2.11

- ◆ 강연제목: 고령과 건강한 의생활
- ◆ 장소: 시립관악노인종합복지관 (서울), 한국
- ◆ 주최: 서울대학교 생활과학연구소
- ◆ 행사명: 서울대학교 생활과학연구소 사회환원 교양강좌

(23) 2015.1.28

- ◆ 강연제목: 제주해녀의 생활양식과 작업실태
- ◆ 장소: 제주도 제주대학교 국제교류관
- ◆ 주최: 제주발전연구원, 제주특별자치도 해양수산연구원, 서울대학교 융복합산업연구회, 제주대학교 관광과경영경제연구소
- ◆ 행사명: 지속가능한 제주미래발전을 위한 지역자원 개발 심포지엄

(22) 2014.12.9

- ◆ 강연제목: '한국 해녀: 환경생리학적 보고'
- ◆ 장소: 경기도 광주시 곤지암 리조트 E빌리지 컨퍼런스 홀
- ◆ 주최: 한국 한의학연구원
- ◆ 행사명: 한의학 연구원 동계워크샵

(21) 2014.10.23

- ◆ 강연제목: 소방용 개인보호복의 인체착용평가
- ◆ 장소: 경남대학교 소방방재학과

- ◆ 주최: 경남대학교 산학협력단

(20) 2014.10.17

- ◆ 강연제목: 제주 해녀의 추위적응능력
- ◆ 장소: 그랜드 호텔 (제주시)
- ◆ 주최: 제주대 씨그랜트 사업단/제주학회
- ◆ 행사명: 제주해녀문화 관련 전문가 국제워크샵

(19) 2014.09.17

- ◆ 강연제목: 스마트웨어의 개발 및 전망
- ◆ 장소: 서울대학교 생활과학대학 최병오홀
- ◆ 주최: 서울대 패션산업고위자과정
- ◆ 행사명: 서울대 패션산업고위자과정 AFB 강의

(18) 2014.10.07

- ◆ 강연제목: 생체신호 모니터링과 스마트 개인보호구
- 3. 장소: 한국전자통신연구원 (ETRI),대전,한국
- 5. 주최: 한국전자통신연구원
- 6. 행사명: 한국전자통신연구원 정기 세미나

(17) 2014.8.28

- ◆ 강연제목: 제주 해녀
- ◆ 장소: 서울대 생활과학대학 222동 210호
- ◆ 주최: 서울대 제주 연구 집담회
- ◆ 행사명: 서울대 제주 연구 집담회 정기 세미나

(16) 2014. 8. 18

- ◆ 강연제목: 차세대 개인보호복과 스마트웨어 시스템
- ◆ 장소: 서울 LG전자 우면 R&D 캠퍼스 2층 대회의실
- ◆ 주최: LG전자 소재부품연구소
- ◆ 행사명: LG 전자 미래기술포럼 워크샵

(15) 2014. 6. 26

- ◆ 강연제목: 의복의 보온력과 착용 쾌적성
- ◆ 장소: 서울 섬유센터 2층, A3홀,한국
- ◆ 주최: 패션소재기술력향상지원사업단(팀)
- ◆ 행사명: 패션소재기술력향상지원사업 유망신소재 핵심기술간담회 특강

(14) 2014. 3. 12

- ◆ 강연제목: 건강한 여름나기
- ◆ 장소: 시립관악노인종합복지관 (서울), 한국
- ◆ 주최: 서울대학교 생활과학연구소
- ◆ 행사명: 서울대학교 생활과학연구소 사회환원 교양강좌

(13) 2013.11.12

- ◆ 강연제목: 추위 · 더위 적응과 건강한 의생활
- ◆ 장소: 서울대학교 의과대학 암연구소, 한국
- ◆ 주최: 기후변화건강포럼
- ◆ 행사명: 기후변화건강포럼 종합학술대회

(12) 2013. 9. 27

- ◆ 강연제목: 스마트웨어 기술개발 동향 및 전망
- ◆ 장소:나노기반 소프트일렉트로닉스연구단 (경주), 한국
- ◆ 주최: 나노기반 소프트일렉트로닉스연구단
- ◆ 행사명: 나노기반 소프트일렉트로닉스연구단 Kick-off meeting

(11) 2013. 4. 3

- ◆ 강연제목: 의복과 건강

- ◆ 장소: 서울대학교 간호대학 간호과학연구소(서울), 한국
- ◆ 주최: 서울대학교 간호대학 간호과학연구소
- ◆ 행사명: 서울대학교 간호대학 간호과학연구소 세미나

(10) 2013. 3. 27

- ◆ 강연제목: 고령과 건강한 의생활
- ◆ 장소: 시립관악노인종합복지관 (서울), 한국.
- ◆ 주최: 서울대학교 생활과학연구소
- ◆ 행사명: 서울대학교 생활과학연구소 사회환원 교양강좌

(9) 2013. 3. 24

- ◆ 강연제목: Cutaneous thermal thresholds and thermal sensation: effects of aging and climate
- ◆ 장소: Kyushu University, Fukuoka, Japan.
- ◆ 주최: Kyushu University
- ◆ 행사명: International Symposium on "Ergonomics and Physiological Anthropology in Thermal Environments. Professor Yutaka Tochihara's retirement ceremony

(8) 2012. 10. 26

- ◆ 강연제목: 피부의 온냉감 역치: 적응과 노화의 영향
- ◆ 장소: 서울 (건축학회), 한국.
- ◆ 주최: 한국생활환경학회
- ◆ 행사명: 2012년 한국생활환경학회 추계포럼

(7) 2012. 6. 30

- ◆ 강연제목: 작업자 보호를 위한 보호의복-소방관의 건강 및 보호의복
- ◆ 장소: 서울 (서울대), 한국.
- ◆ 주최: 건강의복연구회, 한국의류학회
- ◆ 행사명: 2012년 병의원 의류전문가 양성을 위한 워크샵

(6) 2012. 6. 14

- ◆ 강연제목: 소방관의 건강 및 보호복
- ◆ 장소: 농촌진흥청, 대전, 한국.
- ◆ 주최: 농업인 건강연구회
- ◆ 행사명: 농업인 건강연구회 2012년 5차 세미나 (31회)

(5) 2011. 6. 11-12

- ◆ 강연제목: Ethnic differences in regulated body temperature during resting, passive and active heating: Application of Werner's adaptation model: Fukuoka, Japan
- ◆ 주최: Japan Society of Physiological Anthropology
- ◆ 행사명: The 64th meeting of the Japan Society of Physiological Anthropology

(4) 2011. 3. 28-29

- ◆ 제목: 'Alarm' and 'Danger' criteria in foot temperature to prevent heat stroke in workers wearing personal protective clothing
- ◆ 장소: Pittsburg, USA.
- ◆ 행사명: 2011 NIOSH Stakeholder's meeting

(3) 2008. 4. 22/24

- ◆ 강연제목: Cooling and thermal strategies in the space suit for routine and emergency situations
- ◆ 장소/주최: 서울대학교
- ◆ 행사명: 서울대학교 의류학과 정기 특강

(2) 2007. 6. 8

- ◆ 강연제목: Development of liquid cooling garments for comfort support in extravehicular activity – Physiological Design
- ◆ 장소: Seoul, Korea

- ◆ 주최: 한국생활환경학회
- ◆ 행사명: 한국생활환경학회 2007 Spring forum

(1) 2005. 6

- ◆ 강연제목: 온돌과 한국인의 수면환경
- ◆ 장소: 서울대학교
- ◆ 주최: 한국학 연구소
- ◆ 행사명: 2005 한국학 심포지움

8. Book and Book Chapter Published

(1) Choi JW, Lee JY, Lee WK (2013) "Temperature - Adaptation of Temperature Regulation" (by Inoue Yoshimitsu and Kondo Narihiko). Gyomunsa, Sep 2, 2013.

9. Patents

(17) [특허] 2019 <발명의 명칭> 전기에너지 저장 능력을 가지는 섬유 복합체를 이용한 식별부를 구비하는 소방복

- ◆ 출원번호: 10-2019-0173052
- ◆ 출원일 : 2019. 12. 23
- ◆ 출원인 : 서울대학교 산학협력단
- ◆ 발명자 : 이주영
- ◆ 등록국가 : 대한민국

(16) [특허] 2019 <발명의 명칭> 인공기후실 열 스트레스 환경 실험 기반의 한국인 연령별 인지 온도 열적 쾌적 범위 설정 방법

- ◆ 출원번호 : 10-2019-0044286
- ◆ 출원일 : 2019. 04. 16
- ◆ 출원인 : 대한민국(기상청 국립기상과학원장) (2-2011-010201-7)
- ◆ 발명자 : 강미선, 김규량, 조창범, 이지선, 하종철, 이주영
- ◆ 등록국가 : 대한민국

(15) [저작권] 2018 <프로그램 등록증> 손 화염마네킹 프로그램

- ◆ 등록번호 : 제C-2018-023017호
- ◆ 프로그램 명칭 : 화염 마네킹 화상예측
- ◆ 프로그램창작일 : 2018. 06. 01
- ◆ 등록일 : 2018. 09. 03
- ◆ 저작자 : 서울대학교 산학협력단
- ◆ 등록기관 : 한국저작권위원회

(14) [특허] 2018 <발명의 명칭> 이동식 방화쉘터

- ◆ 출원번호 : 10-2018-0104786
- ◆ 출원일 : 2018. 09. 03
- ◆ 출원인 : 서울대학교 산학협력단
- ◆ 발명자 : 이주영, 박준희, 정다희, 고예린
- ◆ 등록국가 : 대한민국
- ◆ 등록일자: 2020.04.03
- ◆ 등록번호: 1020991270000

(13) [특허] 2018 <발명의 명칭> 정전기 제어장갑

- ◆ 출원번호 : 10-2018-0104787
- ◆ 출원일 : 2018.09.03.
- ◆ 출원자 : 서울대학교 산학협력단

- ◆ 발명자 : 이주영, 박준희, 정다희, 고예린
 - ◆ 등록국가 : 대한민국
 - ◆ 등록일자: 2020.04.03
 - ◆ 등록번호: 1020991280000
- (12) [특허] 2018 <발명의 명칭> 전자파 차폐 부재 및 이를 포함하는 기능성 피복
- ◆ 출원번호 : 10-2018-0104788
 - ◆ 출원일자 : 2018. 09. 03
 - ◆ 출원자 : 서울대학교 산학협력단
 - ◆ 발명자 : 이주영, 박준희, 정다희, 고예린
 - ◆ 등록국가 : 대한민국
- (11) [특허] 2018 <발명의 명칭> 장갑의 기민성 시험 장치 및 장갑의 기민성 시험 어셈블리
- ◆ 출원번호 : 10-2018-0032908
 - ◆ 출원일 : 2018. 03. 21
 - ◆ 출원자 : 서울대학교 산학협력단
 - ◆ 발명자 : 배규태, 김도형, 이주영
 - ◆ 등록국가 : 대한민국
 - ◆ 등록일자: 2020.04.03
 - ◆ 등록번호: 1020991850000
- (10) [특허] 2017 <발명의 명칭> 화상 측정 장치
- ◆ 특허번호 : 제 10-1957183 호
 - ◆ 등록일 : 2019. 03. 06
 - ◆ 특허권자 : 서울대학교 산학협력단
 - ◆ 발명자 : 이주영, 김도희
 - ◆ 등록국가 : 대한민국
 - ◆ 국제출원번호 : PCT/KR2018/005308참조기호 : AJP 18762PCT
 - ◆ 국제출원일 : 2018. 05. 09
- (9) [특허] 2016 <발명의 명칭> 심부온에 기초한 열 질환 위험 예측 및 대응 장치와 방법
- ◆ 특허번호 : 제 10-1687908호
 - ◆ 등록일 : 2016. 12. 13
 - ◆ 특허권자 : 서울대학교 산학협력단
 - ◆ 발명자 : 김시연, 이주영
 - ◆ 등록국가 : 대한민국
- (8) [특허] 2016 <발명의 명칭> 다발성 경화증 치료장치 및 그 제어방법
- ◆ 특허번호 : 제 1780415호
 - ◆ 등록일 : 2017. 09. 14
 - ◆ 특허권자 : 서울대학교 산학협력단
 - ◆ 발명자 : 이주영, 신소라
 - ◆ 출원국가 : 대한민국
- (7) [저작권] 2015 <프로그램 등록증> 주관감 측정 프로그램
- ◆ 등록번호 : C-2015-017274
 - ◆ 프로그램명칭 : 주관감 측정
 - ◆ 프로그램창작일 : 2015. 05. 30
 - ◆ 공표일 : 2015. 05. 30
 - ◆ 등록일 : 2015. 07. 28
 - ◆ 저작자 : 서울대학교 산학협력단
 - ◆ 등록기관 : 한국저작권위원회
- (6) [특허] 2015 <발명의 명칭> 유체순환방식 의복 (Fluid circulatory type garment)
- ◆ 출원번호 : 10-2015-0105986
 - ◆ 출원일 : 2015. 07. 27
 - ◆ 출원자 : 서울대학교 산학협력단
 - ◆ 발명자 : 신소라, 이주영

- ◆ 출원국가 : 대한민국

(5) [특허] 2015 <발명의 명칭> 그래핀 히터를 이용한 방한복 및 그 제어방법 (Cold protective clothing using graphene heater and control method thereof)

- ◆ 특허번호 : 제 10-1675691호
- ◆ 등록일 : 2016.11.07
- ◆ 특허권자 : 서울대학교 산학협력단
- ◆ 발명자 : 신소라, 최해현, 강상민, 홍병희, 이주영
- ◆ 등록국가 : 대한민국

(4) [특허] 2015 <발명의 명칭> 심부온에 기초한 열 질환 위험 예측 및 대응 장치와 방법 (Predicting and managing apparatus for heat related illness risk based on core body temperature and method thereof)

- ◆ 등록번호: 10-1687908-0000
- ◆ 등록일: 2016.12.13
- ◆ 특허권자자 : 서울대학교 산학협력단
- ◆ 발명자 : 김시연, 이주영
- ◆ 등록국가 : 대한민국

(3) [특허] 2014 <발명의 명칭> 심부온의 상태 경고 장치 (Apparatus for warning condition of core body temperature)

- ◆ 특허번호 : 제 10-1615179호
- ◆ 등록일 : 2016. 04.19
- ◆ 특허권자 : 서울대학교 산학협력단
- ◆ 발명자 : 이주영, 김시연, 장영준
- ◆ 등록국가 : 대한민국

(2) [특허] 2014 <발명의 명칭> 심부온의 상태 경고 방법 (Method for warning condition of core body temperature)

- ◆ 특허번호 : 제 10-1615180호
- ◆ 등록일 : 2016. 04.19
- ◆ 특허권자 : 서울대학교 산학협력단
- ◆ 발명자 : 이주영, 김시연, 장영준
- ◆ 등록국가 : 대한민국

(1) [특허] 2003 <발명의 명칭>: 차양모

- ◆ 출원번호 : 30-03230760000
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- ◆ 발명자 : 최정화, 김명주, 이주영
- ◆ 출원국가 : 대한민국

10. Journal Activities

(6) Journal of Korean Society of Community Living Science: Editorial Board (2016 ~ Present)

(5) Journal of Korean Society of Living-Environment System: Editorial Board (2013 ~ Present)

(4) Journal of Korean Society of Clothing and Textiles: Editorial Board (2013 ~ Present)

(3) Journal of the Korean Society of Clothing Industry: Editorial Board (2014 ~ Present)

(2) Fashion and Textiles: Editorial Board (2013 ~ Present)

(1) Journal of Physiological Anthropology: Editorial Board (2014 ~ Present)