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Master student

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EDUCATION

2021.08 ~ Present

Seoul National University, Seoul, Korea

M.S in Fashion and Textiles, COM:FORT Lab

Advisor: Prof. Joo-Young Lee

Research Interest: Physiological strain of workers in extreme environment

Optimal thermal comfort condition in indoor environment (EVs)

2017.03 ~ 2021.08

Hanyang University, Seoul, Korea

B.Sc. in Clothing and Textiles

Minor in Industrial Engineering

PUBLICATION (*: Corresponding author)

[In preparation]

Lee CE, **Moon JH**, Lee BH, Lee JY*(2023).

Changes in sweating before and after 14days of heat acclimatization training: Effects of body fat content

Moon JH, Lee CE, Lee BH, Lee JY*(2023).

Physiological and perceptual changes from 14-day heat acclimation: morning and afternoon training effects.

[Under Review]

Roh SH, **Moon JH**, Lee JY*(2022).

[Short report] **Somatotype effects on cutaneous warmth and hot thresholds by a proximity and local radiant heater for electric vehicles.** Journal of Physiological Anthropology

Roh SH, **Moon JH**, Lee JY*(2022).

Spatial summation of thermal sensitivity is limited to small areas. Journal of Thermal Biology.

Roh SH, **Moon JH**, Kang CH, Lee JY*(2022).

Relationships between cutaneous thermal thresholds and individual body characteristics: body mass index and regional subcutaneous fat. Journal of Thermal Biology.

[In press]

문주현, 노상현, 이주영*(2022)

전기차용 국부 근접 복사 히터 개발을 위한 발열판의 최적 표면온도 결정: 가온 면적, 인체 부위 및 체질량지수의 영향. 한국생활환경학회지. 29(3), 261-270.

주희영, 정다희, 노상현, 이민희, Syifa Salsabila, 임가영, 이혜린, 이초은, **문주현**, 김규랑, 이주영*(2022)

여름철 서울과 부산 지역 습구흑구온도(WBGT)와 지역 거주자의 열스트레스 인지 및 체온조절 행동 간의 관련. 한국생활환경학회지 29(2), 149-164.

CONFERENCES PRESENTATIONS

INTERNATIONAL CONFERENCE (*: Presenting)

Moon JH*, Kim SY, Lee CH, Ghim YJ, Kim MS, Lee JY(2023)

Air-cooling vest is effective but not sufficient to alleviate physiological and perceptual heat strain of workers in a hot and humid environment. The 10th European Conference on Protective Clothing (10th ECPC), May 9-12, NIPV in Arnhem, the Netherlands (**Oral**)

Lee CH*, **Moon JH**, Ghim YJ, Kim MS, Hong BH, Lee JY(2023)

Cooling effects of a graphene oxide-coated sheet to alleviate exertional hyperthermia. The 10th European Conference on Protective Clothing (10th ECPC), May 9-12, NIPV in Arnhem, the Netherlands (**Poster**)

Lee CH*, **Moon JH**, Lee BH, Lee JY(2022)

Impacts of 14 days of morning and afternoon exercise in a hot-humid environment on physiological strain. 19th International Conference on Environmental Ergonomics (19th ICEE),

Sep 6-10, 2022, Niagara Falls, Canada (**Poster**)

Moon JH*, Lee CH, Lee BH, Lee JY(2022)

Physiological and perceptual changes from 14-day heat acclimation: morning and afternoon training effects. 19th International Conference on Environmental Ergonomics (19th ICEE), Sep 6-10, 2022, Niagara Falls, Canada (**Poster**)

Baek YJ*, Stenkina Maria, **Moon JH**, Lee CE, Syifa Salsabila, Lim GY, Lee HL, Lee JY(2022)

Liquid cooling compression gloves to reduce chemotherapy-induced peripheral neuropathy. 19th International Conference on Environmental Ergonomics (19th ICEE), Sep 6-10, 2022, Niagara Falls, Canada (**Poster**)

DOMESTIC CONFERENCE (*: Presenting)

백윤정*, Maria Stenkina, **문주현**, 이초은, Syifa Salsabila, 임가영, 이혜린, 이주영 (2022)

액체 순환 냉각 장갑 착용시 손목 압박이 손의 말초 혈관 수축에 미치는 영향. 한국생활환경학회 추계학술대회. 가천대학교, 2022년 12월 2일, **포스터**

Hye-Lin Lee*, Syifa Salsabila, Cho-Eun Lee, **Juhyun Moon**, Yujean Ghim, Yesung Cho, Minseo Kim, Hyun-Soo Kim, Joo-Young Lee (2022)

Firefighters' thermal and immune-inflammatory responses in a hot and humid environment. 제 74회 대한생리학회 학술대회. 이화여자대학교 의과대학, 2022년 10월 28일, **포스터**

문주현*, 노상현, 이주영(2022)

전기차 탑승자를 위한 인체 부위별 근점 복사 면상 히터의 최적 표면온: 가온 면적과 체질량지수를 중심으로. 한국의류산업학회 춘계학술대회, 2022년 5월 21일, 온라인, **포스터**

노상현*, **문주현**, 강찬혁, 이주영(2021)

Relationships between exposed surface area and cutaneous thermal sensitivity to radiant heat exposure. 대한생리학회 73회 학술대회, 2021년 10월 27~28일, 온라인, **포스터**.

문주현*(2020)

MZ 세대 여성을 위한 스마트 속옷 개발. 한국의상디자인학회 제 2차 학술대회, 2020년 12월 12일, 온라인, **포스터**.

INVOLVED RESEARCH PROJECTS

2022.2.15 ~ 2022.12.15

인체 열전달 관련 생리학적 파라미터 임상 연구(Clinical Study of Physiological Parameters Related to Human Heat Transfer). 삼성전자 종합기술원

2021.12.1 ~ 2022.6.30

***표준 고온순화 훈련 방안 연구**(Development of standard heat acclimation training method for Korean army). 국군의학연구소

- 실험 리더: IRB 신청, 선행 자료 분석, 인공기후실 실험 기자재 준비, 인공기후실 실험 진행, 실험 결과 정리 및 자료 분석, 제 1 저자 논문 작성 중

2021.4.1 ~ 2024.12.31

자율주행 전기차 냉난방 소모전력 저감 및 개별 탑승자의 열쾌적성 향상을 위한 국부 근접 공조기술 개발(Development of Local Proximity Air Conditioning Technology to Reduce Power Consumption and Improve Thermal Comfort of Individual Passengers in Self-Driving Electric Vehicles). 산업통상자원부 산업기술평가관리원. 주관연구기관 서연이화

2021.4.15 ~ 2021.12.15

알고리즘 개발용 user data 확보 및 application 발굴. 삼성전자 종합기술원

2021.3.1 ~ 2025.2.28

ICT 융합섬유 제조과정 전문인력양성과정(ICT Convergence Fiber Manufacturing Process Expert Training Course). 한국산업기술진흥원 산업혁신 인재성장지원사업. 주관기관 섬유수출입협회

- 참여 대학원생

2020.9.1 ~ 2027.8.31

의류 패션 혁신 융합 인재 양성팀 (Talent Cultivation Team for Interdisciplinary Fashion Innovation). 한국연구재단 4 단계 BK21 미래인재 양성사업 (과학기술분야) 교육연구팀 사업.

- 참여 및 지원 대학원생

2020.4.1 ~ 2023.12.31

***근접공조의 감성만족 효과 증진을 위한 xEV 탑승자 열쾌적성 관리 기술 개발** (Development of human thermal comfort model for passengers in an electric vehicle). 한국산업기술평가원. 주관연구기관 한국자동차연구원,

- 실험 리더: IRB 신청, 선행 자료 분석, 인공기후실 실험 기자재 준비, 인공기후실 실험 진행, 실험 결과 정리 및 자료 분석, 제 1 저자 논문 작성 중

AWARDS

1st Prize (Master's course – Poster / Second author). The 19th International Conference on Environmental Ergonomics. 2022.09

2nd Prize (Master's course – Poster / First author). The 19th International Conference on Environmental Ergonomics. 2022.09

Graduation Excellence Prize. Hanyang University, Seoul. 2021.08

The National Convention of the Fashion College Graduation Design Contest. Participant Prize. Korea-China Fashion Human Resources Development Institute. 2021.02

Hanyang Graduation Fashion Design Contest. 1st Prize (President's Award). Hanyang University, Seoul. 2020.11

CERTIFICATION

ICT convergence fiber manufacturing process expert training project: technical embroidery basics and practice, ply-twisting / air texturing equipment basics and conducive yarn manufacturing practice, conducive knit manufacturing and analysis practice using automatic flat knitting machine. Korea Institute of Industrial Technology, Korea.

Certificate of secondary school teacher (Subject: Home Economics). Ministry of Education, Korea.

SKILLS

IBM SPSS 26.0

Adobe Photoshop / Adobe Illustrator CC

Korean (Native)

English (Fluent)

EXTRACURRICULAR ACTIVITIES

Undergraduate internship in COM:FORT Laboratory (Advisor: Joo-Young Lee). 2021.07 - 08. Department of Textiles, Merchandising and Fashion Design, College of Human Ecology, Seoul National University.

Internship in Kolon Industries FnC Organization, KolonSport, Tracking Design Team. 2020.11 - 2021.02

Member of HUSE-C (Hanyang University Speech Club). 2020.09 - 2021.02

Supervised Student Teacher, Yonghwa Girls' High School, Seoul. 2020.04

Planning team Leader of Teenager Mentoring Volunteer Camp. 2020.01 - 02. Korea Scholarship Institution & Hanyang University Social Innovation Center.

Mentor of Teenager Mentoring Volunteer Camp. 2019.07 - 08. Korea Scholarship Institution & Hanyang University Social Innovation Center.

Selected to a member of **Shanghai and Hangzhou Fashion Study Tour.** 2019.05. Hanyang University, Seoul. Department of Clothing and Textiles.