

# CURRICULUM VITAE

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Republic of Korea

## Education

1994-2003 Ph. D. Graduate School of Human Ecology, Seoul National University.  
Dissertation: Permissible safety limits in garment pressure focused on the parts of human body. Work supervised by Professor Jeongwha Choi.

1992-1994 Master, Graduate School of Agriculture and Life Science,  
Seoul National University.  
Master thesis: Effects of Ondol system on human thermoregulatory responses. Work supervised by Professor Jeongwha Choi.

1987-1992 Bachelor's degree, Department of Agricultural Home Economics, College of Agriculture and Life Science, Seoul National University.  
Awarded the degree of BSc for a thesis entitled: A study on the research trends of textiles and clothing in Korea until 1986.

## Research and Professional Experiences

2021-presnet BK21 Research Professor  
Seoul National University.

2019-2020 Research Professor,  
Research Institute of Human Ecology, Seoul National University.

2016-2019 Research Assistant Professor,  
Research Institute of Human Ecology, Seoul National University.

2014-2014 BK Assistant Professor,  
Department of Textiles, Merchandising and Fashion Design, College of Human Ecology, Seoul National University.

2009-Present The license of Manufacturing & Import Manager of Medicine and MedicalSupplies of Korea, Korea Food & Drug Administration.

2009-2013 Director, Institute of Human Science, PnTD Corp., Ltd.

2005-2009 Research Scientist, National Institute of Agricultural Science and Technology, Rural Development Administration of Korea.

## Teaching Experiences

- Mar.2005- Feb.2009      Adjunct Professor, Department Fashion Design and Business, College of Natural Science, Daejeon University.  
Teaching Classes: Clothing and Environment, Functional Clothing, Sports Design, Pattern Making in Basic, Designing Protective Clothing, Textiles, Basic of Clothing Materials, Textiles for Designers, Advanced in Environment and Clothing, Fashion Show for Graduation, etc.
- Sep.2007-Feb.2008      Lecturer, Department of Fashion Design, College of Arts and Design, Kyunghee University.  
Teaching Class: Environment & Protective Clothing.
- Mar.1995-Feb.2003      Lecturer, Department of Home Economics Education, College of Education, Kangwon National University.  
Teaching Classes: Basic Pattern Making, Advanced in Pattern Making, Clothing and Environment, Clothing Science, Textiles for Teachers, etc.

## Projects Fund

- Jun, 2020-May.2023      Project Charger, Titled” Development of chemotherapy-induced peripheral neuropathy prevention gloves” Funding Sources: Ministry of Education.
- Jun. 2017-May.2020      Project Charger, Titled” Evaluation index of the thermal insulation for padded garments” Funding Sources: Ministry of Education.
- Jun.2012-Oct.2013      Chief Project Leader, Titled “Development of heat protective garment with carbonized fiber, FR rayon, & aramid fiber (Project Code: S2048086)”. Funding Sources: Ministry of Commerce, Industry and Energy. Fund Amount: 670,000,000won.
- Jun.2011-May.2013      Chief Project Leader, Titled “Development of the eco-friendly multi-functional health care textile products using natural/synthetic fused fibers with anti-microbial, flame-retardant and UV shielding properties (Project Code:10039461)”. Funding Sources: Ministry of Commerce, Industry and Energy. Fund Amount: 2,188,000,000won.
- Sep.2007-Aug.2008      Project Charger, Fostering Next-generation Researchers Program, Titled “Research of the body shape of Korean farmers”.  
Funding Sources: Ministry of Education.  
Fund Amount: 28,000,000won.

## Publications (Journal)

- 33 Baek, Y. J., Cho, J., Hong, Y., & Lee, J. Y. (2021). Effects of air velocity on the thermal insulation of winter-padded clothing ensembles at 10°C air temperature -comparison of human wear trials with a thermal manikin- (0°C 환경에서 기류가 겨울철 패딩 의류의 한 벌 보온력에 미치는 영향: 인체 착용 및 서멀마네킹 측정 비교.). Journal of the Korean Society of Clothing and Textiles 45(4), pp703-713.

32. Kwon, J. Y., Kim, S., **Baek, Y. J.**, & Lee, J. Y.(2021). Comparison and evaluation of clothing insulation of newly-developed air-filled baffle jackets and down padded jackets (새롭게 개발된 겨울용 공기주입형 배플 패딩 재킷과 기존 방한 패딩 재킷들의 보온력 비교 평가). *Fashion & Textile Research Journal* 23(2), 261-272.
32. **Baek, Y. J.**, Kim, S., Yoo, E. S., Lee, J. Y. (2020). Effects of air mattress pressure on sleep quality and physiological responses: Comparisons of the shoulder and hip pressure relief . *International Journal of Clothing Science and Technology*. (Article publication date: 20 July 2021)
31. Lee, J. Y., Park, J., **Baek, Y. J.**, Jung, D. H., Ko, Y., Jung, J. Y., Kang, K., Lee, T., Lee, Y., Song, E., Son, S. Y., & Lee, J. Y. (2020). Regional and sex differences in cognition and wear behavior concerning fine-dust protective masks during high concentration days (미세먼지 고농도 시준 방진용 마스크에 관한 인식과 착용 행동에서 전국 지역별 차이 및 성차). *Journal of the Korean Society of Clothing and Textiles* 44(3), 516-538.
30. **Baek, Y. J.**, Seo, W., Kim, H. C., & Lee, J. Y. (2020). Influences of wearing far-infrared indoor clothing on skin blood flow, perceptual and thermal responses (원적외선 방사 기능 실내복 착용이 인체 피부혈류량, 온열 심리 및 온열 생리 기능에 미치는 영향). *Journal of the Korean Society of Clothing and Textiles* 44(2), 342-353.
29. **Baek, Y. J.**, Bae, G. T., Jung, D. H., Kim, G. R., Lee, J. Y. (2019). Ageing effects on skin hydration and physio-psychological sweat responses during exercise and rest in WBGT 27°C and 32°C with high humidity (WBGT 27°C와 32°C의 고온다습 환경에서 운동과 휴식 시 피부수분도 및 생리적 주관적 발한 반응에서의 연령차). *Journal of The Korean Society of Living Environmental System* 26(4), 492-506.
28. **Baek, Y. J.**, Kim, D. H., Bang, S. H., Lee, J. Y. (2019). Korean firefighter questionnaire to improve the test methods of firefighting personal protective equipment (소방공무원 대상 국내 소방용 개인보호구 성능평가법 개선에 대한 설문조사). *Journal of The Korean Society of Living Environmental System* 26(3), 322-344.
27. Park, J., **Baek, Y. J.**, Roh, S., Lee, J. Y. (2018). Comparison of self-identified thermal tolerance and wearing habits in winter between the elderly males and female (남녀 고령자의 자각적 내한내열성과 겨울철 착의 행동 비교). *Journal of the Korean Society of Clothing and Textiles* 42(3), 530-543.
26. Hyun, C. S., Roh, S., Kim, D. H., Son, S. Y., **Baek, Y. J.**, Kim, K. R., & Lee, J. Y. (2018). Comparison of the perception of summer heat wave and thermoregulatory behavior between adult males who live in Seoul and those in Daegu (서울과 대구지역 거주 성인남성의 여름철 폭염 인지 및 체온조절성 행동비교). *The Korean Journal of Community Living Science* 29(1), 17-32.
25. **Baek, Y. J.**, Hwang, S. K., Lee, H. H., Park, J., Kim, D. H., & Lee, J. Y. (2018). Quantification of thermal insulation by clothing items and an analysis of influencing factors (단일의복의 보온력 정량화와 영향 요인). *Journal of the Korean Society of Clothing and Textiles* 42(1), 172-182.
24. **Baek, Y. J.**, Jung, D., Son, S. Y., Lee, J. Y. (2017). Comparisons between Shikoro-type helmet with no hood and typical fire protective helmets with hood in a hot and humid environment. *Ergonomics*, 17,1-9 DOI:10.1080/00140139.2017.1353707
23. Kim, D., **Baek, Y. J.**, & Lee, J. Y. (2016). Contemporary research to standardize the development and test methods for performance of pesticide protective clothing (농약방제복

- 개발 규격 및 시험평가법 표준화를 위한 국내외 연구현황 분석). *Korean Journal of Human Ecology*, 25(2), 185-205
22. Lee, H. H., Shin, S., Lee, J. Y. & **Baek, Y. J.** (2015). Survey on the actual wearing conditions of naval duty uniforms in naval vessels (해군 함상 근무복 개발을 위한 착용 실태 조사). *Fashion & Textiles Research Journal*, 17(4), 646 - 656.
21. Kwon, J., Kim, S., **Baek, Y. J.** & Lee, J. Y. (2015). Comparisons of thermal insulations between on air-cell packs embedded jacket and down jackets (공기주입형 의복의 보온력 측정 및 다운재킷의 보온력과의 비교). *Journal of Korean Society of Clothing and Textiles*, 39(1), 39-46.
20. **Baek, Y. J.**, Shin, S. & Lee, J. Y. (2014). Preference for clothing habits and its relationships with thermal tolerance in indoor temperatures recommended in summer and winter (여름과 겨울철 권장실내온도에서 의복 선호 및 의생활 습관, 자각 내한내열성과의 관계). *The Korean Society of Community Living Science*, 21(5), 706-721..
19. **Baek, Y. J.** & Shin, J. H. (2014). Risk Points of Flame Retardant Textiles by Halogen and Halogen- free Laminating Film. *Material Science and Application*, 5, 830-836.
18. **Baek, Y. J.**, Park, S. J., Lee, H. H., Son, Y. J., & Lee, J. Y. (2014). Preference of health care professionals for medical gowns by their work(의료 종사자들의 의료 가운 선호도 실태 조사). *Fashion & Textiles Research Journal*, 16(3), 469-475.
17. Kim, S., Jang, Y. J., **Baek, Y. J.** & Lee, J. Y. (2014). Influence of partial components in firefighters' personal protective equipment on subjective perception. *Fashion and Textiles*, 1:1
16. Lee, J. Y., Kim, S., Jang, Y. J., **Baek, Y. J.** & Park, J. H. (2014). Component contribution of personal protective equipment to the alleviation of physiological strain in firefighters during work and recovery. *Ergonomics* (Published online 29. Apr. 2014 doi: 10.1080/00140139.2014.907449(2012 IF:1.674)
15. Shin, J. H. & **Baek, Y. J.** (2012). Analysis of polybrominated diphenyl ethers in textiles treated by brominated flame retardants. *Textile research Journal*, 82(13), 1307-1316.
14. Kim, Y. W. & **Baek, Y. J.** (2009). Distribution of the Garment Pressure by Postures (자세 변화에 따른 의복압 분포 현황). *Journal of Korean Society of Clothing and Textiles*, 33(5), 775-781.
13. Hwang, K. S., Lee, K. S., Kim, K. R., Kim, H. C. & **Baek, Y. J.** (2008) An Experimental Study on the Thermal Physiological Response in the Pesticide Proof Clothing Textile Materials for a Fruit- grower (과수용 농약방제복 소재 특성에 따른 인체생리반응에 관한 연구). *Journal of Korean Society of Clothing and Textiles*, 32(11), 1792-1801.
12. **Baek, Y. J.** & Choi, J. W. (2008). Determination of the Garment Pressure Level Using the Elastic Bands by Human Body Parts (탄성압박 밴드를 이용한 인체 부위별 가압 수준에 관한 연구). *Journal of Korean Society of Clothing and Textiles*, 32(10), 1651- 1658.

11. **Baek, Y. J.** & Lee, K. S. (2008). Characteristics of the Body Shape of Korean Woman Farmers by Crops (주재배 작목별 한국 여성 농업인의 체형 특성). *Journal of Korean Society of Clothing and Textiles*, 32(10), 1584-1594.
10. **Baek, Y. J.**, Hwang, K. S., Kim, K. R., Kim, H. C. & Lee, K. S. (2008). Characteristics of the Somatotypes of Korean Farmer (한국 남녀 농업인의 체형 특성). *Journal of Korean Society of Clothing and Textiles*, 32(3), 431-442.
9. **Baek, Y. J.** & Choi, J. W. (2007). Selection of the Measurement Points for Garment Pressure of the Girdle and the All-in-one (거들과 올인원의 의복압 측정 부위 선정에 관한 연구). *The Korean Society of Community Living Science*, 18(4), 609-616.
8. Hwang, K. S., Kim, K. R., Lee, K. S., Kim, H. C., Kim, K. S. & **Baek, Y. J.** (2007). The Textiles and the Performance Level in Developing the Pesticide Proof Clothing (기능성 농약방제복 개발을 위한 소재 및 성능에 관한 연구). *Journal of Korean Society of Clothing and Textiles*, 31(11), 1611-1620.
7. **Baek, Y. J.**, Lee, K. S. & Choi, J. W. (2007). Selection of the Measurement Points for the Garment Pressure of the Brassier and the Waist-Nipper (브래지어와 허리거들에 있어서 의복압 측정 부위 선정에 관한 연구). *The Korean Society of Community Living Science*, 18(3), 445-454.
6. Lee, K. S., Choi, J. W., Kim, K. R. & **Baek, Y. J.** (2007). The Status of Agricultural Diseases, Injuries and Accidents among the England, the USA, the France, the Japan, and the Korea (영국, 미국, 프랑스, 일본과 한국의 농업인 업무상 재해 발생 현황에 관한 고찰). *The Korean Society of Community Living Science*, 18(1), 189-204.
5. Lee, K. S., Choi, J. W., Kim, K. R., Kim, H. C. & **Baek, Y. J.** (2007). The government official support status of the agricultural diseases, injuries and accidents among Korea and foreign countries and the implication of the agricultural policy of Korea (해외의 농업안전보건지원 실태 및 국내 정책의 함의). *Journal of Korean Society of Occupational Environmental Hygiene*, 17(2), 89-100.
4. Choi, J. W. & **Baek, Y. J.** (2000). Development the protective clothing for a dropworts cropping workers (미나리 작업자를 위한 작업복 개발에 관한 연구). *Journal of Korean Society of Clothing and Textiles*, 24(8), 1266-1275.
3. Son, W. K. & **Baek, Y. J.** (1999). Effects of garment types on thermal insulation using a thermal manikin (의복의 형태가 보온력에 미치는 영향 - 서멀마네킹 착용 실험에 의한). *Journal of Korean Society of Clothing and Textiles*, 23(8), 1110-1118.
2. Choi, J. W. & **Baek, Y. J.** (1995). UV ray protective function and wear sensation of garment for plastic house worker. (비닐하우스용 작업복의 자외선 차단 성능과 착용감 연구). *The Korean Society of Community Living Science*, 6(1), 25-30.
1. **Baek, Y. J.** & Choi, J. W. (1994). Effects of Ondol system on human thermoregulatory responses (온돌 생활이 인체의 체온조절 기능에 미치는 영향). *Journal of Living Environment System*, 1(1), 63-72.

## Publications (Book)

1. Lee, E. K., Kim, Y. W., Kim, J. Y., Kim, H. K. & **Baek, Y. J.** (2008). Shop Master. Kyohanksa , Seoul, ISBN: 9788935404216(8935404217)

## Intellectual Property Rights (Patents etc.)

12. [Patent in Korea] 방염성 원사 및 그의 제조 방법(Flame retardant yarn and manufacturing method thereby)
  - Inventors: Kim, H. C., Park, J. H., **Baek, Y. J.** & Eum, K. S.
  - No. of Registration (Application No.) : 10-1442720(10-2013-0030801)
  - Date of registration: 2014.05.30
13. [Patent in Korea] 내열성이 개선된 복합 방적사 직물 및 이의 제조방법 (Composite yarn fabric having improved heat resistance and a method for preparing the same)
  - Inventors: **Baek, Y. J.** & Park, J. H..
  - No. of Registration (Application No.) : 10-14046430000(10-2012-00456921)
  - Date of registration: 2014.05.30
10. [Patent in Korea] 봉제 장치 (Device for sewing)
  - Inventors: **Baek, Y. J.** & Park, J. H..
  - No. of Registration (Application No.) : 10-13118450000(10-2013-0024095)
  - Date of registration: 2013.09.17
9. [Patent in Korea] 봉제 장치 (Device for sewing)
  - Inventors: **Baek, Y. J.** & Park, J. H..
  - No. of Registration (Application No.) : 10-13118440000(10-2013-0024094)
  - Date of registration: 2013.09.17
8. [Patent in Korea] 전동식 전지가위 (Electromotion trim scissors)
  - Inventors: Lee, K. S., Kim, H. C., Choi, H. S., Park, Y. S., Kim, K. R., Jeon, K. H., Kim, K. W., **Baek, Y. J.**, Im, D. S. & Jeong, S. Y.
  - No. of Registration (Application No.) : 10-11667000000(10-2010-0032290)
  - Date of registration: 2012.07.12.
7. [Patent in Korea] 방제복 (Prevention Wear)
  - Inventors: Lee, K. S., Kim, H. C., Choi, H. S., Park, Y. S., Kim, K. R., Jeon, K. H., Kim, K. W., **Baek, Y. J.**, Im, D. S. & Jeong, S. Y.
  - No. of Registration (Application No.) : 20-4614470000(20-2010-0007238)
  - Date of registration: 2012.07.06.
6. [Patent in Korea] 얼굴 이미지 분석용 촬영장치 (Photographing apparatus for analyzing face image)
  - Inventors: Kim, Y. W., Lee, E., **Baek, Y. J.**,

- No. of Registration (Application No.) : 10-10821590000(10-2011-0090137)
  - Date of registration: 2011.11.03
5. [Patent in Korea] 손 측정 장치 및 방법 (Apparatus and method for measuring and analysis of hand)
- Inventors: **Baek, Y. J.**, Lee, K. S., Kim, K. R., Kim, H. C., & Hwang, K. S.
  - No. of Registration (Application No.) : 10-10552590000(10-2010-0028707)
  - Date of registration: 2011.08.02.
4. [Patent in Korea] 방오성 농작업복용 원단 및 그의 제조방법 (farm-working fabric for preventing contamination and method for manufacturing the same)
- Inventors: Kim, K. R., Lee, K. S., Kim, H. C., Ko, K. H., Hwang, K. S. & **Baek, Y. J.**
  - No. of Registration (Application No.) : 10-10251010000(10-2010-0010682)
  - Date of registration: 2011.03.18
3. [License of Program in Korea] 이차원 손 측정 데이터 분석 프로그램 (Data analysis program from 2D hand measurement system)
- Inventors: **Baek, Y. J.**, Lee, K. S., Kim, K. R., Kim, H. C. & Hwang, K. S..
  - No. of Registration : 2007-01-122-005758
  - Date of registration: 2008.12.30
2. [Patent in Korea] 의복압 측정 장치 (Apparatus for measuring clothing pressure)
- Inventors: Choi, J. W. & **Baek, Y. J.**
  - No. of Registration (Application No.) : 10-509368000(10-2003-0038895)
  - Date of registration: 2005.08.23
1. [Patent in Korea] 방한복 (Clothes for protection against the cold)
- Inventors: Choi, J. W., Whang, S. K. & **Baek, Y. J.**
  - No. of Registration (Application No.) : 20-02831750000
  - Date of registration: 2002.07.11