

LINSEY A. GRIFFIN, Ph.D.

Assistant Professor of Wearable Product Design

Dep't of Design, Housing, & Apparel | College of Design | University of Minnesota
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EDUCATION

Doctor of Philosophy, Design: Apparel Studies, University of Minnesota, Twin Cities, 2016

Dissertation: *Innovation in Sewn Cooling Products: Three Case Studies Examining the Interdisciplinary Product Development Process*

Master of Science, Design: Apparel Studies, University of Minnesota, Twin Cities, 2015

Thesis: *The Development of Design Requirements for Breastfeeding Apparel: A User-Oriented Product Development Approach*

Bachelor of Science, Textiles and Apparel, Cornell University, Ithaca, New York 2004

RESEARCH EXPERIENCE

Principle Investigator, Wearable Product Design Center, 2015–2016

Project: Pressure Ulcer Design Research, (Funded by the Nurse Foundation Fund)

Initiated relationship with UMN Medical Center, developed collaborative research proposal, and secured initial funding

Lead interview and focus groups to capture patient experience with pressure ulcers and to understand the prevention and treatment practices of nursing professionals in Adult CVICU and SIVU at the University of Minnesota Medical Center, Fairview

Research Assistant, Wearable Technology Lab, 2014–2015

Project: Design and Manufacture of Wearable, Printed, and Flexible Electronics for Treating Neurological Disorders, (Funded by MnDRIVE)

Trans-disciplinary research involving the Wearable Product Design Center, Industrial Partnership for Research in Interfacial and Materials Engineering (IPRIME); Materials Research Science and Engineering Center (MRSEC), Institute for Engineering in Medicine, and the Center for Neural Engineering

Research responsibilities included determining the anthropometric variability of targeted body regions. Used ANSUR and CAESAR data and ASTM size standards, calculated the effect of ready-to-wear sizing on electrode placement for medical wearable sensing applications

Mentored one undergraduate researcher

Research Assistant, Human Dimensioning Lab, 2011–2014

Project: Functional Enhancement of Protective Coveralls (Funded by 3M)

Performed ethnographic user research and functional fit testing with 3D body scanning technology to redesign and test protective coveralls

Developed innovative methods of using and incorporating 3M technology/materials into coverall designs

Designed and tested a sizing system for new coverall design using anthropometric data from CAESAR

One U.S. patent and one international patent filed for new coverall design and material application

Mentored two undergraduate researchers: Organized meetings, demonstrated and trained 3D body scanner research applications, directed fit-test research, and taught grading techniques

Research Assistant, Wearable Product Design Center, 2012–2013

Project: Material Selection Process (Funded by Agriculture Experiment Station #58–083)

Researched and developed a method of materials selection for wearable products

Research Assistant, Wearable Technology Lab, Summer 2013

Project: Toward a Cut-and-Sewn Platform for Smart Clothing (Funded by National Science Foundation Grant #1253581)

Research Intern, NASA, Johnson Space Center, Space Suit and Crew Survival Systems Branch, May 2012–August 2012 (Funded by UROP)

Project: Research and Design for the Liquid Cooling and Ventilation Garment, and Foot to Boot Integration.

Independent Research, 2011–Present

Project: The product development process of wearable product design: a case study examining interdisciplinary relationships between wearable product designers and material developers. University of Minnesota, 2014–Present. (Funded by Design Graduate Program Block Grant and Lois Dickey Fellowship) (Dissertation research)

Project: A method for examining the relationship between protective coveralls and the body.

University of Minnesota, 2014–2015. (Funded by Design Graduate Program Block Grant)

Project: Normothermic medical wearable development. Consultant for K & M NormothermicSystems: Minneapolis, MN; New York, NY. 2013–2014.

Project: A user-centered approach to the redesign of the patient hospital gown. St. Louis Park, MN, 2011–2013. (Funded by Project Better Gown Grant)

RESEARCH GRANTS

Griffin, L. (2015). *Pressure ulcer design research*. Nursing Research Foundation Grant, University of Minnesota Medical Center, September 2015. \$5,516. (PI)

Griffin, L. (2015). *The product development process of wearable product design*. Design Graduate Program Block Grant, University of Minnesota, July 2015. \$1,500. (PI)

Griffin, L. (2014). *A method for examining the relationship between protective coveralls and the body*. Design Graduate Program Block Grant, University of Minnesota, July 2014. \$1,450. (PI)

Gordon, L. & Guttman, S. (2011). *A user-centered approach to the redesign of the patient hospital gown*. Project Better Gown Grant, Park Nicollet, St. Louis Park, MN. October 2011. \$20,000. (PI)

TEACHING EXPERIENCE

Lead Instructor, University of Minnesota, Dept. of Design, Housing, & Apparel

ADes 2222 Apparel Design Studio II (Lecture and Lab)	Fall 2015, 2014, 2013
ADes 4215 Product Development: Softlines	Spring 2015, 2016
ADes 2221 Apparel Design Studio I (Lecture and Lab)	Spring 2013

Lecturer, Raffles Millennium International, New Delhi, India, February 2009–July 2010

History of Costume	Spring 2009
Textiles	Spring 2009
Apparel Draping I	Summer 2009, Winter 2010
Apparel Pattern Drafting I	Summer 2009, Winter 2010
Apparel Sewing I	Summer 2009, Winter 2010
Apparel Draping II	Fall 2009, Spring 2010
Apparel Pattern Drafting II	Fall 2009, Spring 2010
Apparel Sewing II	Fall 2009, Spring 2010
Apparel Draping III	Winter 2010
Apparel Pattern Drafting III	Winter 2010
Apparel Sewing III	Winter 2010
Advanced Draping & Drafting	Spring 2010
Advanced Sewing Techniques	Spring 2010
Style & Trends	Spring 2010

COLLEGIATE ADMINISTRATION EXPERIENCE

Program Director of Fashion Design, Raffles Millennium International; New Delhi, India, February 2009–July 2010

Developed the Fashion Design Department at a new campus in New Delhi, India for an internationally recognized group of design colleges throughout SE Asia, Australia and New Zealand. Assisted four new Indian campuses in developing the Fashion Design programs.

Led Fashion Design and Fashion Merchandising & Management departments at Delhi campus: Recruited and hired five faculty. Managed a team of three full time Lecturers and two part-time Lecturers

Acted as Quality Assurance liaison for Delhi campus; worked with Dean of Design to ensure teaching and student outcomes. Prepared Fashion Design and Fashion Merchandising & Management departments for college audits

Established relationships within the Indian design community: Created an Industry Contact Program to host distinguished guest lecturers from design and management, and integrated site-specific projects into the fashion design curriculum

INDUSTRY EXPERIENCE

Consultant: Apparel Design & Production; USA, Europe, India, 2004 – 2011

Designer, Patternmaker & Production Manager for European Celebrity; 2009-2010
Designed, developed and produced a line of high-end clothing for a television personality and United Nations Ambassador to Spain: Created 1st through production patterns, product specifications, and textile development and embroidery design. Led fabric sourcing, production and quality control in India. Clothing line featured in several magazines, including a cover and fashion spread in Cinco Magazine

Designed, produced, and sold a line of clothing under the label of Linsey Ann to stores throughout Northwest USA; 2008–2009

Production, patternmaking and technical services to independent designers; 2004–2007, 2011

Head of Costume Department; Designer, Lotte World Theme Park, Seoul, Korea; *“The Adventures of Sinbad”* Ride; Sub-Contractor of Artistry Entertainment, 2007–2008

Engineered and designed garments for over 60 animatronic characters whose movements and control systems required detailed attention throughout the patternmaking, sewing and fit processes

Produced all the patterns and led an in-house team of five in cutting, construction and embellishment

Established priorities, managed scheduling, developed and adhered to budgets, and facilitated inter-department coordination

Fashion Research Analyst, Fairfield, New York, NY, 2006–2007

Management Consultant for Fortune 500 and luxury fashion companies; Clients ranged from Prada to Circuit City

Assistant Designer (Freelance), Rushkin LLC, New York, NY, 2005–2006

Collaborated with the Creative Director and other designers on the Fall '06 and Spring '07 collections of a high-end line of womenswear

Prepared technical packages; Worked with pattern and sample makers on initial sample development; Attended fittings and followed-up with corrections

Sourced, selected, ordered and purchased fabric and trim for production; Sourced garment production in the United States and China

Duty Manager / Supervisor, Reiss, London, England; New York, NY, 2004 – 2005

Transferred from London to assist in NYC store opening, training of employees, and to guide development of first Reiss store in North America

PUBLICATIONS

Peer Reviewed Publications

Griffin, L., Compton, C., & Dunne, L. (2016). An analysis of the variability of anatomical body references within ready-to-wear garment sizes. In *Proceedings of the 2016 ACM International Symposium on Wearable Computers*. ACM, New York, NY, USA, DOI: 10.1145/2971763.2971800

Griffin, L. & Dunne, L. (2016). Effects of ready-to-wear sizing conventions on sensor placement for medical wearable sensing. *Journal of Medical Devices*. 10 (2), 020939–020940. DOI: 10.1115/1.4033170

Bye, E., & Griffin, L. (2015). Testing a model for wearable product materials research. *International Journal of Fashion Design, Technology and Education*. 8 (2), 139-150. DOI: 10.1080/17543266.2015.1018959

Gordon, L., Guttman, S. (2013). A user-centered approach to the redesign of the patient hospital gown. *Fashion Practice* 5(1): 137–152. DOI: 10.2752/175693813X13559997788961

Wagner, H., Kim, A., & Gordon, L. (2013). Relationship between personal protective equipment, self-efficacy, and job satisfaction of women in the building trades. *Journal of Construction Engineering Management*. 139(10). DOI: 10.1061/(ASCE)CO.1943-7862.0000739.

In-Preparation

Griffin, L., Lastovich, T., Bye, E., LaBat, K. A protocol for the evaluation of coverall fit.

Griffin, L., Lastovich, T., Bye, E., LaBat, K. Innovative coverall design development for industry.

Griffin, L., Lastovich, T., Bye, E., LaBat, K. The development of a new sizing system for innovative coverall design.

WORK IN JURIED EXHIBITIONS

Gordon, L. & Minn, S. (2013). A gown for breastfeeding. MN Goes Green Exhibition, St Paul, MN.

PRESENTATIONS, INVITED

Griffin, L. (2015). Geometric Patternplay. Guest Lecturer in ADes 2221, Apparel Design Studio 1, University of Minnesota, College of Design.

Gordon, L., Guttman, S., & Dunne, L. (2013). The Redesign and Evaluation of the Patient Hospital Gown. Selected as a presenter of “Thursdays at Noon”, a University of Minnesota, College of Design lecture series.

Gordon, L. & Guttman, S. (2012). The Development of a User-Centered Hospital Gown for Park Nicollet Health Services. Park Nicollet Foundation, St. Louis Park, MN.

PRESENTATIONS, PEER-REVIEWED

Griffin, L., Lastovich, T., Bye, E., LaBat, K. (2016). Sizing System Development and Testing for a Protective Coverall Design. Presented at the annual meeting of International Textile and Apparel Association, Vancouver, British Columbia.

Griffin, L., Lastovich, T., Bye, E., LaBat, K. (2014). A Protocol for the Evaluation of Coverall Fit. Presented at the annual meeting of International Textile and Apparel Association, Charlotte, North Carolina.

Gordon, L. & DeLong, M. (2014). The Case of the Trench Coat. Presented at the annual meeting of Popular Culture Association, Chicago, Illinois.

Gordon, L. & Bye, E. (2013). Understanding the Apparel Use, Needs, and Preferences of Breastfeeding Mothers: A User-Oriented Product Development Approach. Presented at the annual meeting of International Textile and Apparel Association, New Orleans, Louisiana.

Gordon, L. & Dunne, L. (2013). The Redesign and Evaluation of the Patient Hospital Gown. Presented at the annual meeting of International Textile and Apparel Association, New Orleans, Louisiana.

Bye, E. & Gordon, L. (2013). A Method for Materials Research. Presented at the annual meeting of International Textile and Apparel Association, New Orleans, Louisiana.

Gordon, L., Kim, A., and Wagner, H. (2012) Pretty in PPE: The Relationship between Personal Protective Equipment (PPE), Self-Efficacy, and Job Satisfaction of Women in the Building Trades. Presented at the annual meeting of International Textile and Apparel Association, Honolulu, Hawaii.

Gordon, L. & Min, S. (2012). A Human-Factor Model to Make Breastfeeding Easier. Presented at the Fashion and Health Symposium, University of Minnesota, Twin Cities.

Gordon, L., & Guttman, S. (2012). User-Centered Hospital Gown. Presented at the Fashion and Health Symposium, University of Minnesota, Twin Cities.

FELLOWSHIPS, HONORS & AWARDS

- Griffin, L.** (2015). *Lois Dickey Graduate Fellowship*. International Textile and Apparel Association. \$1,000.
- Griffin, L.** (2015). *Marilyn DeLong Fellowship*. College of Design, University of Minnesota. \$2000.
- Gordon, L.** (2014). *Outstanding Graduate Student*, Apparel Studies, College of Design, University of Minnesota.
- Gordon, L.** (2014). *Mary Hoover Award for Teaching Excellence*, Department of Design, Housing, and Apparel, University of Minnesota.
- Bye, E., Guerin, D., Jasper, D., Wu, J.J., Zolligner, S., Guiney, K., & **Gordon, L.** (2012) *Deans' Investment Award: Technology of Innovative Design*. College of Design, University of Minnesota. \$4,708.
- Gordon, L.** (2012). *Council of Graduate Students Travel Award*. University of Minnesota. \$1456.
- Gordon, L.** & Guttman, S. (2012). *Outstanding Teamwork Award*, College of Design, University of Minnesota.
- Gordon, L.** & Guttman, S. (2011) *Project Better Gown: People's Choice Award*. Park Nicollet, St. Louis Park, MN. \$5000

UNIVERSITY OF MINNESOTA: DEPARTMENT OF DESIGN, HOUSING & APPAREL SERVICE

- Graduate Program Committee:** Graduate Student Representative, 2014–2015
- Apparel Design Program Committee,** 2013–Present
- Curriculum Committee:** Graduate Student Representative, 2012–2013
- Policy and Advisory Committee:** Graduate Student Representative, 2011–2012; 2013–2014
- Search Committee** for Apparel Studies Lecturer position, Spring 2012
- Design Graduate Student Association:** Public Relations Officer, August 2012–May 2013;
Member, August 2011 – Present

PROFESSIONAL SERVICE

- Graduate Student Liaison to Council,** International Textile and Apparel Association, 2014

PROFESSIONAL MEMBERSHIPS

International Textile and Apparel Association, 2012-Present

Costume Society, 2012-2013

Popular Culture, 2013-2014