

CURRICULUM VITAE

Elizabeth (Beth) Esponnette

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Current

- co-founder of unspun
 - Incorporated company prior to University of Oregon in July 2015
 - Full time on company July 2017 - now

Postgrad Work Experience

- Assistant Professor, Product Design, University of Oregon, 2015 - 2017
- (co-founder, unspun) HAX Accelerator, 11th cohort, Shenzhen, China, Fall 2017
- (co-founder, unspun) Summer@Highland, Highland Capital Partners, 2015
- Softgoods Design & Engineering Intern, Ekso Bionics, Summer 2014 (work used not only in medical clinics worldwide, but also by DARPA and the US Special Forces; work written up in the 16 October 2015 issue of *Science* (Vol. 250 no. 6258 pp. 270-273))
- Instructor, TechShop Menlo Park, June 2012 - October 2013
- Materials Researcher, Mountain Hardwear, June 2011 - September 2012
- Product Development Associate, Pearl Izumi, June 2010 - June 2011

Education

- M.F.A. Design, Joint Program in Design, Stanford University, 2013 - 2015
- B.S. Fiber Science & Apparel Design, Cornell University, 2006 - 2010

Additional Education

- Lorenzo de' Medici, Study Abroad and Homestay in Florence, Italy, 2009
- Pratt Institute, Fashion Design Summer Program, 2005

Courses Taught

- *Product Design 485: Senior Studio III: Product Design + New Business Venture*, University of Oregon, Spring 2016, Spring 2017 (built course from scratch)
- *Product Design 484: Senior Studio II: Wearables*, University of Oregon, Winter 2017 (built course from scratch)
- *Product Design 410: Experimental Materials*, University of Oregon, Fall 2016 (built course from scratch)
- *Product Design 101: Introduction to Product Design*, University of Oregon, Fall 2016 (co-taught and built course with Wonhee Arndt)
- *Product Design 350: Objects & Impacts*, University of Oregon, Winter 2016, Winter 2017 (built course off of Kiersten Muenchinger's precedent)
- *Product Design 406: Special Problems* (various forms of independent study), University of Oregon, Fall 2015, Winter 2016, Spring 2016, Winter 2017, Spring 2017
- *Product Design 430: Computer Assisted Design & Production*, University of Oregon, Fall 2015, Winter 2016 (built course from scratch)
- *Introduction to Basic Sewing*, TechShop Menlo Park, 2012 - 2013
- *Introduction to Embroidery on a Machine*, TechShop Menlo Park, 2012 - 2013
- *Introduction to Industrial Sewing*, TechShop Menlo Park, 2012 - 2013
- *Introduction to Sewing on a Serger*, TechShop Menlo Park, 2012 - 2013
- *Sumobot Challenge Group Event*, TechShop Menlo Park, 2012 - 2013

Courses Assisted

- *Mechanical Engineering 115b: Product Design Methods*, Stanford University, Winter 2015
- *Mechanical Engineering 115a: Human Values in Design*, Stanford University, Fall 2014
- *Art Studio 160: Design I*, Stanford University, Winter 2014

Undergraduate Internships

- Design Intern, Jill McGowan, Summer 2009
- Menswear Intern, Ralph Lauren, Summer 2008
- R&D Intern, TexTech Industries, Summer 2007

Undergraduate Research Experience

- Firefighter and PPE Researcher, Advisor: Dr. Susan Ashdown, Cornell University, 2009 - 2010
- Design Process Researcher, Advisor: Dr. Fatma Mete, Cornell University, 2008
- Fiber Science Researcher, Advisor: Dr. Margaret Frey, Cornell University, 2007

Awards

- Finalist (winners TBD - November 2017), representing unspun, Alibaba Entrepreneurs Fund, Sensors & Advanced Materials Jumpstarter Semi-Finals Pitch, hosted at Hong Kong Science & Technology Park, August 2017
- HAX Accelerator Funding, 2017-2018 (\$100,000)
- National Science Foundation Small Business Innovation Research Phase I Grant, representing unspun, Advanced Manufacturing & Nanotechnology category, 2017 - 2018 (\$225,000)
- H&M Conscious Foundation Global Change Award Early Bird Winner, representing unspun, April 2017
- Dassault Systemes SolidWorks Entrepreneur Program Recipient, representing unspun, 2016
- Faculty Research Award, Office of the Vice President for Research & Innovation, University of Oregon, 2016 (\$4,514)
- H&M Conscious Foundation Global Change Award Finalist, unspun, April 2016 (top 10/2775)
- New Junior Faculty Research Award, University of Oregon, 2015 - 2016 (\$2,000)
- Lab Startup Funding, University of Oregon, 2015 - 2018 (\$20,000)
- Summer@Highland 2015 funding (\$20,000)
- C. Diane Christensen Fellowship, Stanford University, 2013 - 2015 (Full tuition)
- Arts Stipend, Stanford University, 2014 (\$7,000)
- Faculty-Chosen Outstanding Senior Award, Cornell University, 2010
- International Textile and Apparel Association (ITAA) Exhibition Award, 2010
- Cornell University Big Idea Competition Finalist, 2010

Select Press

- Forbes Asia. "Starting From Scratch: unspun." 11 Dec 2017.
<https://www.youtube.com/watch?v=lof1IJvubCs>
- The Mills Fabrica. Fabrica Weave. "Tailor-Made with No Seamstresses" Evolution Edition. The Mills Fabrica. Fabrica Weave. Fall 2017.
http://www.themillsfabrica.com/wp-content/uploads/2017/11/fabrica_weave_06_fall_2017-1.pdf
- Alibaba Entrepreneur Fund Jumpstarter. Company Feature.
<https://www.jumpstarter.hk/en/event/finalist/59>
- Medium. "Fit3D Scans Used to Make Custom Jeans."
<https://blog.fit3d.com/fit3d-scans-used-to-make-custom-jeans-68e316916a36>
- Storefront. "Experience the new way of buying denim jeans in the Unspun Pop-up store." Success Stories. December 2017.
<https://blog.thestorefront.com/experience-the-new-way-of-buying-denim-jeans-in-the-unspun-pop-up-store/>
- Core77. "Introducing Plants Into the Home Through Utility, Not Decoration." 2 Mar 2017.
- Vitone, Matt. PSFK. "Houseplants Redesigned Into Everyday Objects". 16 Mar 2017.

- designboom | architecture & design magazine. "elizabeth esponnette harnesses nature to grow wearable chia vest." 1 Mar 2016.
<http://www.designboom.com/design/elizabeth-esponnette-chia-vest-03-01-2016/>
- Catálogo diseño. "Elizabeth Esponnette utiliza semillas de chia y pegamento para crear nuevas técnicas de fabricación textil." 8 Mar 2016.
<http://www.catalogodiseno.com/2016/03/08/textiles-chia-pegamento-elizabeth-esponnette/>
- DZine Trip. "Designer grows living chia vest". 6 Mar 2016.
<http://dzinetrip.com/designer-grows-living-chia-vest/>
- Ecouterre. "This Sprout-Covered Vest is a Chia Pet You Can Wear." 10 Mar 2016.
<http://www.ecouterre.com/this-sprout-covered-vest-is-a-chia-pet-you-can-wear/>
- Inhabitat. "Show off your green thumb with this sprouted chia vest." 13 Mar 2016.
<<http://inhabitat.com/show-off-your-green-thumb-with-this-sprouted-chia-vest/>
- UNDO-ORDINARY. Interview. "Unspun and Unconventional" 22 Apr 2016.
<http://undoordinary.com/2016/04/22/unspun-and-unconventional/>
- Camozzi, Rosemary Howe. *Oregon Quarterly*. "Fashion Statement." Winter Issue. Online at <http://www.oregonquarterly.com/fashion-statement>
- Sword, Katy. *Oregon Business Magazine*. November/December Issue. Online at <http://www.oregonbusiness.com/article/the-magazine/november-december-2016/item/17322-la-unch-clean-cut>
- McBee, Ben. Interview. "Revolutionary 3D-Printed Clothing." 11 Dec 2016. December Issue. Online at <https://www.1859oregonmagazine.com/business/3d-printed-clothing>
- Heimtextil (International Trade Fair, "biggest international trade fair for home and contract textiles, global benchmark for quality textiles of design and innovative functionality") Trend Book, 2016 - 2017

Exhibitions

- Design Week Portland, White Box, White Stag Building, April 2016
- Beautiful Users (work from Ekso Bionics), Cooper Hewitt, Smithsonian Design Museum, 2015
- Art of Science, Packard Atrium, 2015
- Art Thesis, Thomas Welton Art Gallery, 2015
- Personal Statements, Stanford Joint Program in Design, 2014
- Display and presentation of self-directed work, Ekso Bionics, 2014
- Meet the Makers, Stanford Product Realization Lab, 2013 - 2015
- TechShop Open House, Jean Construction Demonstration, 2012
- International Textile and Apparel Association Exhibition, 2010
- Fiber Science & Apparel Design Department Exhibitions, Fall 2006 - Spring 2010
- Cornell Design League (now Cornell Fashion Collective) Fashion Show, Senior Line, 2010
- Cornell Design League (now Cornell Fashion Collective) Fashion Show, 2008
- Cornell Design League (now Cornell Fashion Collective) Fashion Show, 2007
- Fashion Design Student Work, Pratt Institute, 2005

Conferences/Talks

- H&M Foundation, Accenture & KTH-hosted Global Change Award Accelerator, Milan, Italy, October 2017 (invited to participate and present company progress)
- National Science Foundation (NSF) Small Business Innovation Research (SBIR) Conference, Arlington VA, September 2017 (invited to present company research)
- Applied Craft & Design MFA Lecture Series, jointly through Oregon College of Art and Craft / Pacific Northwest Collage of Art, April 2017 (invited for feature talk & studio critiques)
- Sculptural Fibers, Fibers Department, Oregon College of Art and Craft, April 2017 (invited talk)
- Oregon BEST FEST, September 2016 (invited for investor pitching)
- Founders Present Series, August 2016, Fertilab Eugene (product design talk)
- NPR Marketplace. "Nike serves up a big fashion don't at Wimbledon". Gigi Douban. 29 Jun 2016.
- RAINmaker Grant Committee, Spring 2016

- Design Week Portland, April 2016 (invited to give Creativity Workshop with Hale Selek)
- HOPES Conference, University of Oregon, April 2016 (served on environmental design competition jury)
- Startup Weekend - Eugene/Springfield, OR, 2015 (gave keynote address)
- Maker Faire, San Mateo, CA, 2015 (showed introductory work for unspun)
- Interview for Madison Maxey and MIT Vehicle Lab - Man Vehicle Lab Biosuit, April 2015
- TEI, Stanford University, CA, 2015 (assisted with set up and running workshops)
- Inside 3D Printing Conference, Santa Clara, CA, 2014
- Google Glass Explorer Invitational Conference, Computer History Museum, Mountain View, CA, 2013 (interviews with Explorers shown in feature video)
- After Dark: Wearable Technologies, Exploratorium, San Francisco, CA, 2014 (Ekso Bionics featured)
- Outdoor Retailer, Salt Lake City, UT, 2011 - 2012 (on business for Mountain Hardwear)
- ASTM International - 9th Symposium on Performance of Protective Clothing and Equipment: Emerging Issues and Technologies, Anaheim, CA, 2011 ('Assessing user needs and perceptions of firefighter gear' poster featured)
- Colorado State University Apparel & Merchandising Final Show 2011 (guest critic)
- Interbike, Las Vegas, NV, 2010 - 2011 (on business for Pearl Izumi)

Published Material

- Barker, J., Boorady, L.M., Lin, S-H., Lee, Y-A, Esponnette, E. & Ashdown, S.P. Assessing user needs and perceptions of firefighter PPE. *Performance of Protective Clothing and Equipment: 9th Volume, Emerging Issues and Technologies*. Ed. A. M. Shepherd. ASTM International: West Conshohocken, PA, 2012
- Esponnette, E. & Ashdown, S.P., 'Three Case Studies to Determine Issues with Fit and Function of Firefighter Turnout Gear.' Special Report for Globe Manufacturing, 2009
- Yang, T., Esponnette, E., Shah, N., Talmage, C., Starr, S., and Watson, T., Thank You Google Glass Explorers (video), May 13, 2014, unveiled at Google Glass Explorer Invitational Conference, Computer History Museum, Mountain View, CA, 2013, <https://www.youtube.com/watch?v=zHqp5nFq5Pk&feature=youtu.be>

Patents & Invention Disclosures

- unspun machinery, TBA
- Esponnette, E., Hovorka, G., Systems and Methods for Creating Three-Dimensional Woven Textile Products, Publication No. US 2016/0281277 A1, Publication Date Sep. 29, 2016, Filed Dec. 18, 2015
- Tsai, H, Esponnette, E., and Ashdown, S.P., Firefighter Hood with Impact Protection, Invention Disclosure, Cornell Center for Technology Enterprise and Commercialization # 5186, 2010

Student Work

- Primary Advisor, Hashiguchi, S., Honors Thesis, 2017 (passed with distinction, Interdisciplinary Thesis Award)
- Secondary Advisor, Bales, L., Honors Thesis, 2017 (passed with distinction)
- Stranahan, J. and Garrett Warnick, INTERZINC Challenge 2016 Winners, <http://aaa.uoregon.edu/news/aaa-students-dominate-national-awards-zinc-based-designs>
- Coached students to \$100,000 in entrepreneurial funding, Spring 2016 - Spring 2017

University Committee Service

- Equity & Inclusion Committee, Architecture & Allied Arts, UO, 2016 - 2017
- Recruitment & Search Committee, Sports Product Design Master's Program, UO, 2016 - 2017
- Outreach Committee, Product Design, UO, 2015 - 2016
- Admissions Committee, Product Design, UO, 2015 - 2017

Service

- Mentor, RAIN Coastal Venture, May/June 2017
- Guest lecturer for UO AAA199 Design Create Change class, Jessica Swanson, Winter 2017
- Mentor, ID8, Regional Accelerator & Innovation Network and Fertilib Eugene, Winter 2017
- Advisor, Tatung University Industrial Design Masters exchange students in Product Design at the University of Oregon
- Mentor, Quackcon, University of Oregon Sports Product Hackathon, October 2016
- Guest speaker for University of Oregon Entrepreneurship Club, October 2016
- Advisor, Design for America (UO chapter), 2015 - Present
- Re-branding for Frosland Photography, froslandphotography.com, July 2016
- Guest critic for University of Oregon Art MFA Open Studios & Grad Review, February 2016
- Guest lecturer for UO ARCH 407/507 Fabric Architecture, Mark Donofrio, Fall 2015
- Exhibit Design Volunteer, Exploratorium, 2014 - 2016
- OTL iFarm MedTech Researcher, TES treatment for neuropathic pain, 2014 - 2015
- Google Glass Explorer Interviewer and Storyteller, 2013
- Farming Volunteer, WWOOF Norway, India, Canada, 2013
- Volunteer, Boulder Homeless Shelter, 2010 - 2011

Research Interests

- Additive manufacturing techniques for soft goods
- Biology-inspired manufacturing, circular processes, and experimental materials
- New parametric and generative design practices for textile products

Athletic Experience

- Two-time USCSA Nordic Skiing All-American, Cornell University, 2006 - 2010
- Nordic Ski Team Captain, Cornell University, 2009 - 2010
- Maine High School All-State Honors in soccer, nordic skiing, lacrosse, 2002 - 2006
- Coastal Premier Soccer Team, 2000 - 2006
- Maine Olympic Development Program Soccer Team, 2004 - 2006

Ultramarathon Races

- Tillamook Burn 50 Mile Trail Run 2017
- Gorge Waterfalls 100k Trail Run 2016
- Dick Collins' 50 Mile Trail Run 2014
- Dick Collins' 50 Mile Trail Run 2013
- Birkebeinerrennet 54k Ski Race 2013
- Headlands 50 Mile Trail Run 2012
- Dick Collins' 50 Mile Trail Run 2011
- Coureur des Bois 90k Ski Race 2011
- American Birkebeiner 54k Ski Race 2011