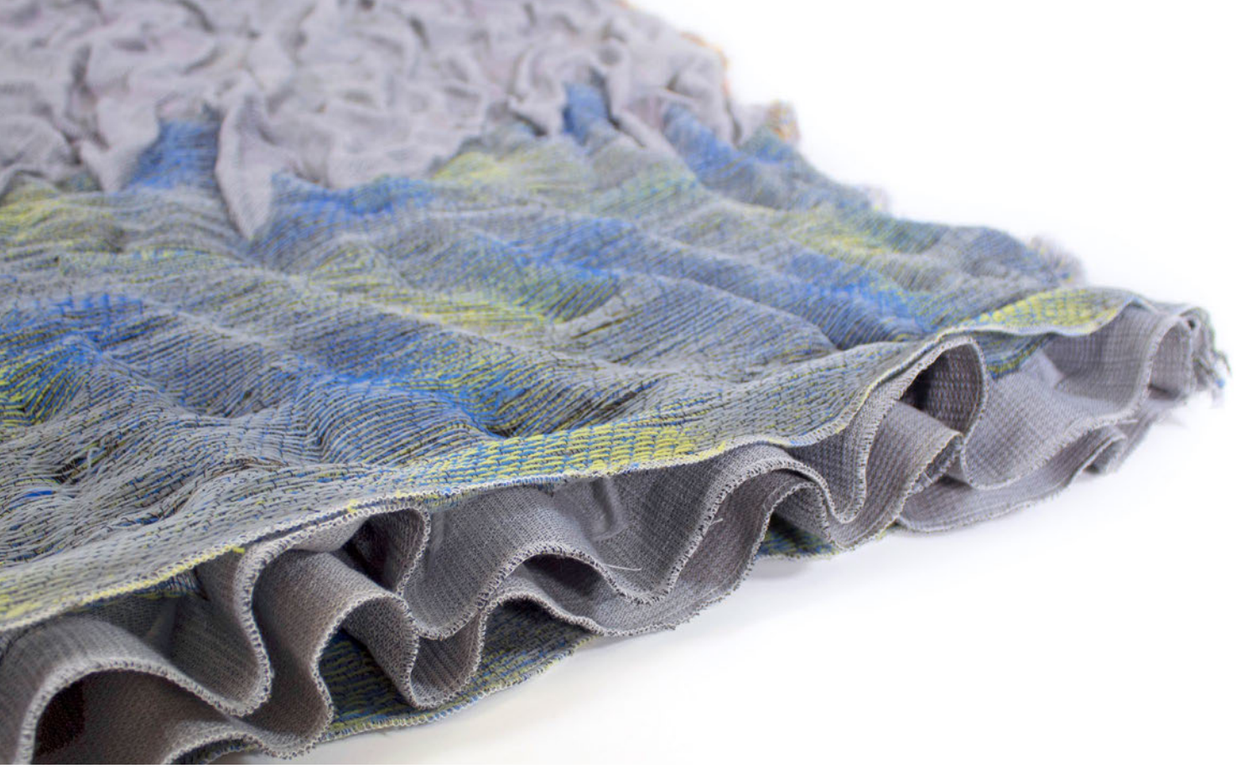
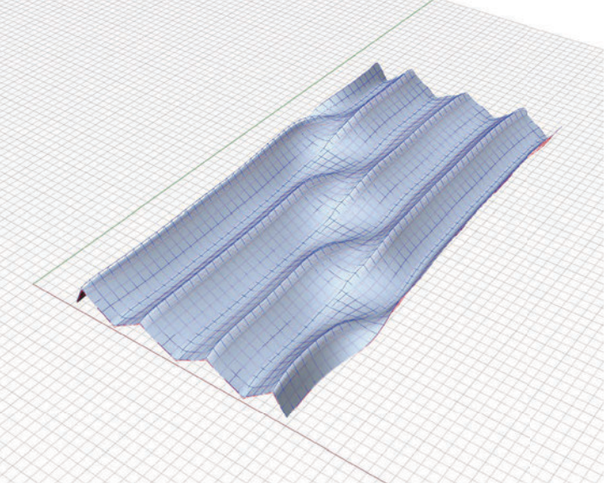
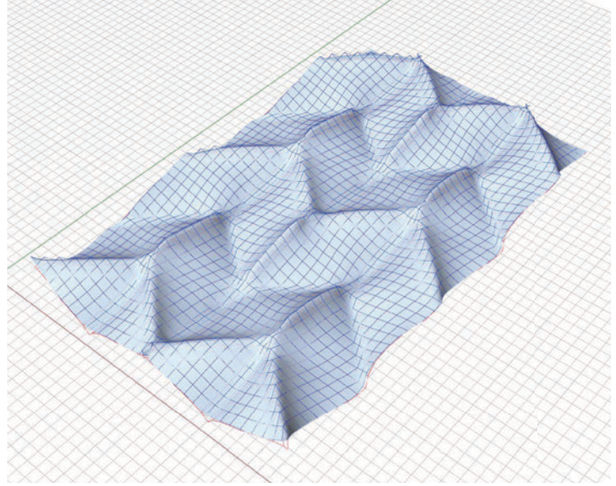
Elizabeth Meiklejohn
Selected Work

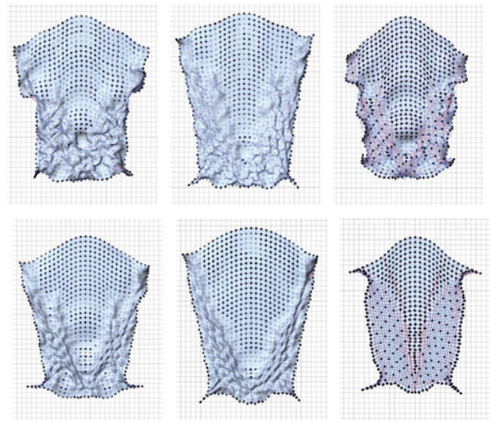
http://elizabethmeiklejohn.com
hello@elizabethmeiklejohn.com
617 543 2280



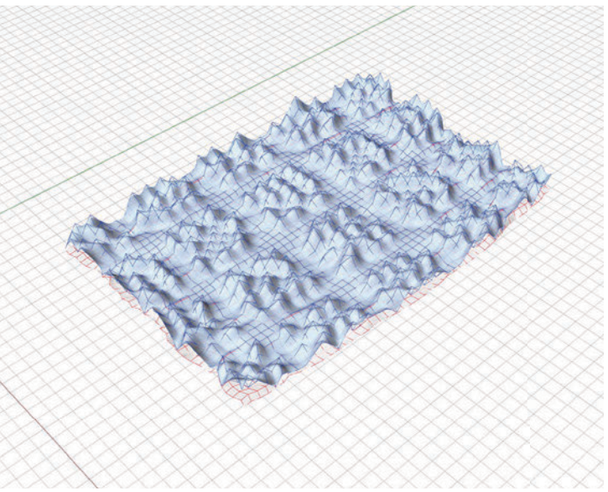
Jacquard-woven fabrics and chairs designed with the Virtual Textiles Research Group at RISD. The self-shaping fabrics have distinct dimensional forms, or “behaviors”, with physical properties suitable for a zoned single-piece seat construction.

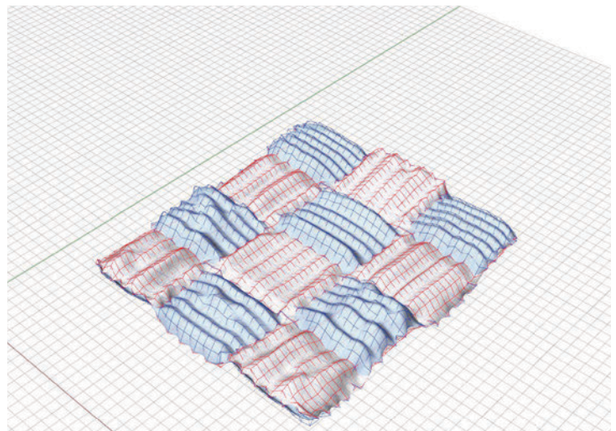


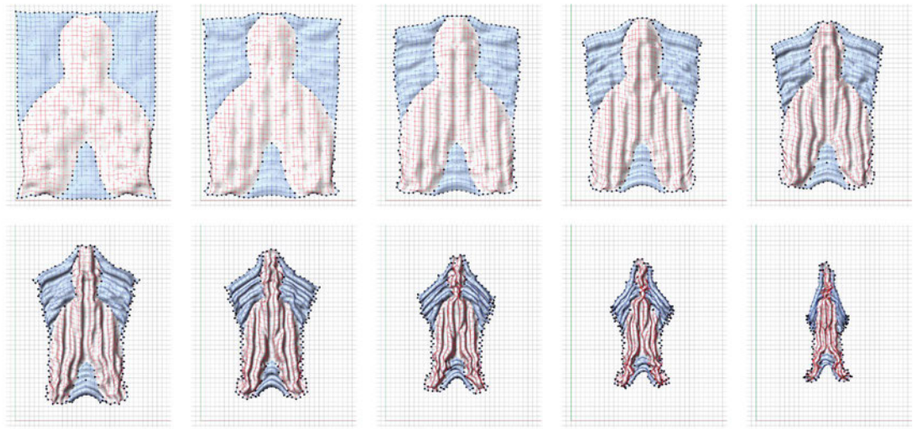


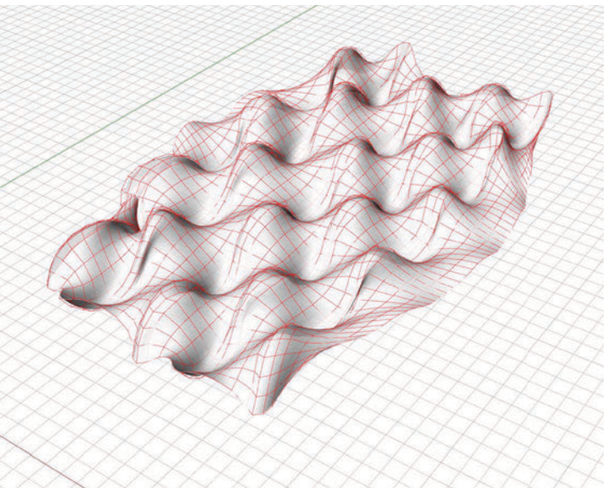


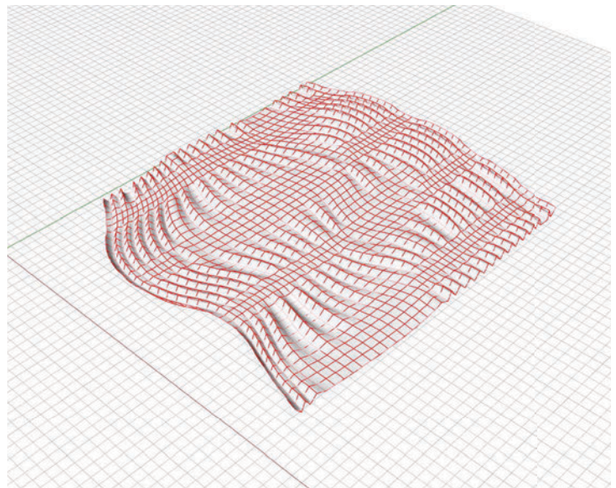
System for sketching woven fabrics, made with Grasshopper and Kangaroo for Rhino. Focusing on fabrics that relax or change shape, the tool allows designers to quickly ideate and discover new forms before weaving physical samples. Examples on this page are experiments in reshaping a rectangular panel into a flat pattern for a sleeve.

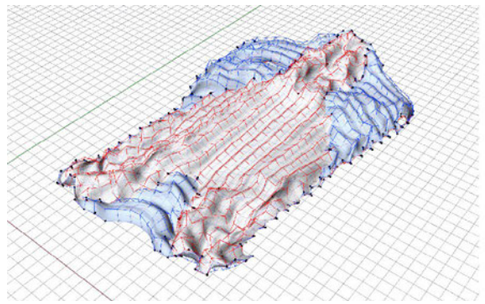


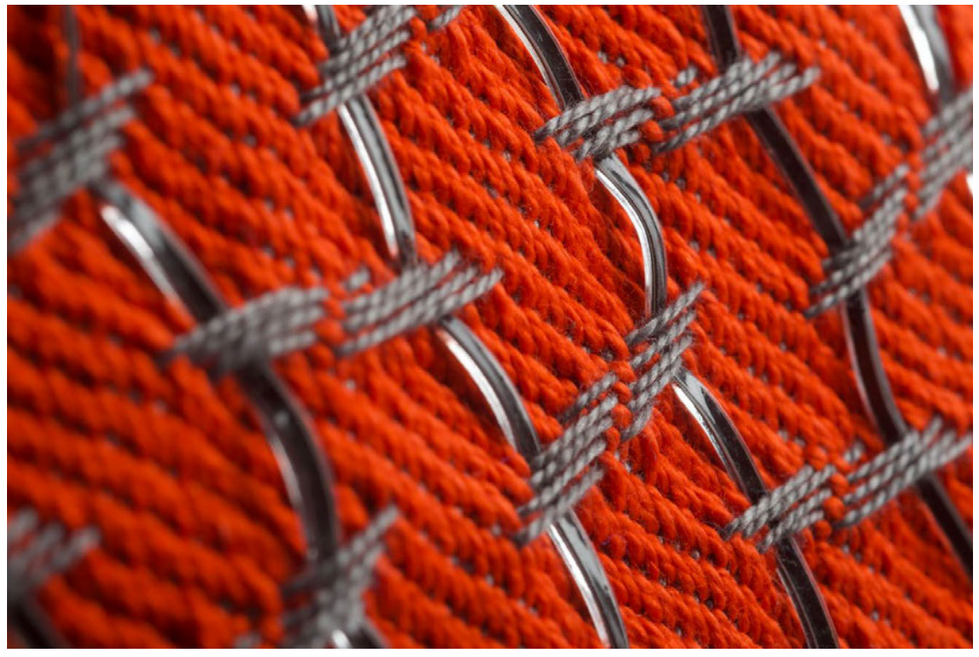




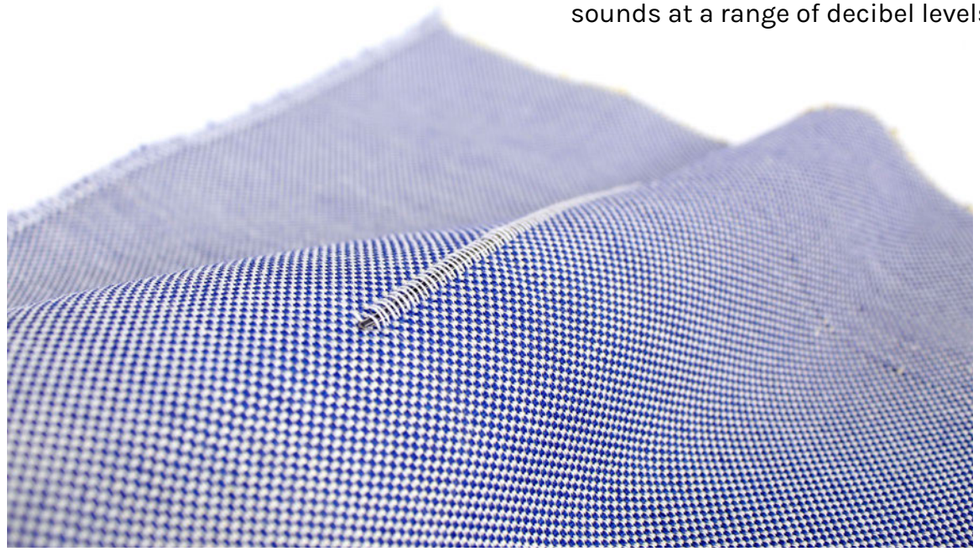


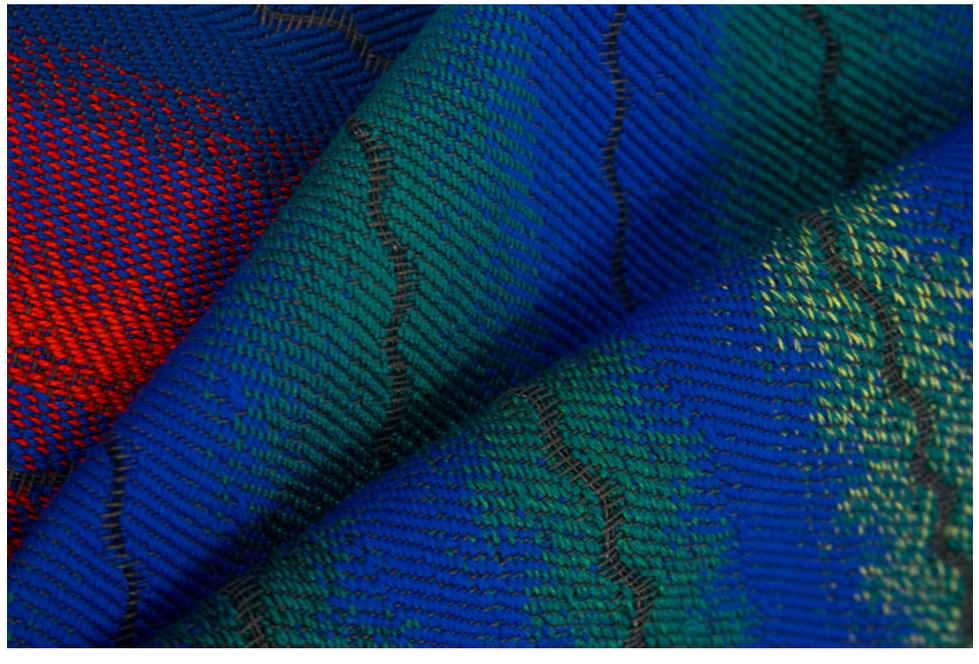






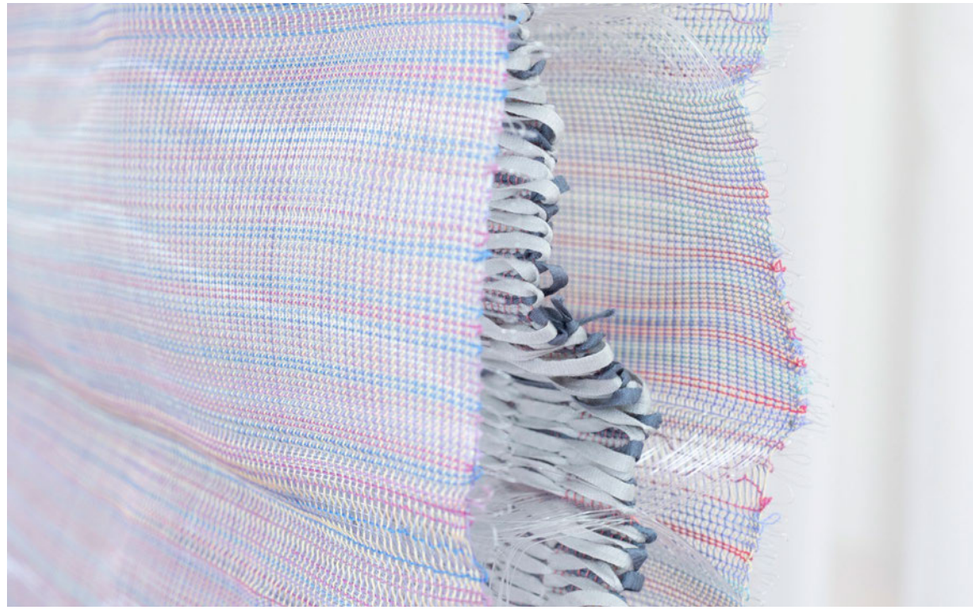
Acoustic fabrics designed in collaboration with researchers at MIT. The flexible piezoelectric fiber woven into the fabrics enables them to detect sounds at a range of decibel levels.

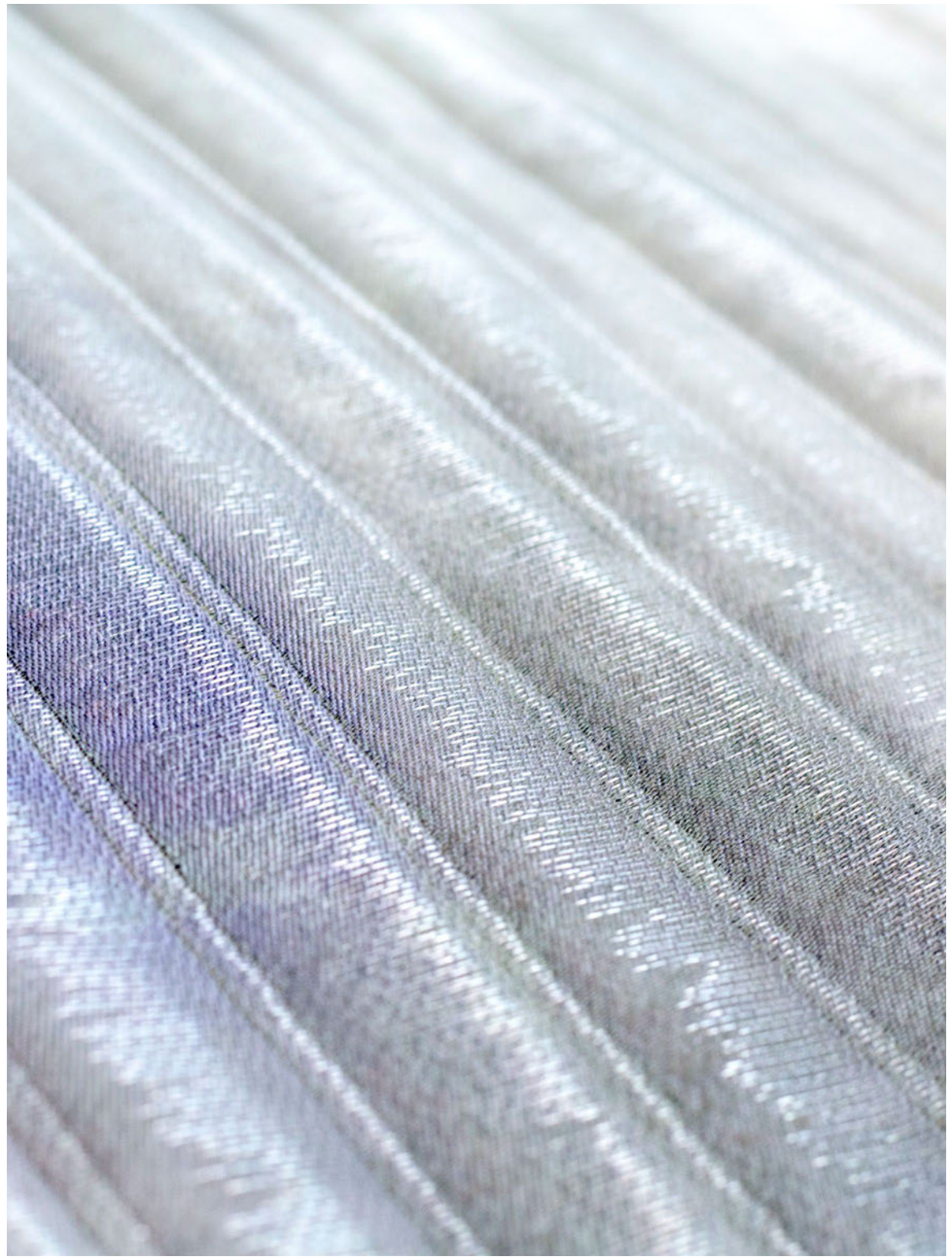


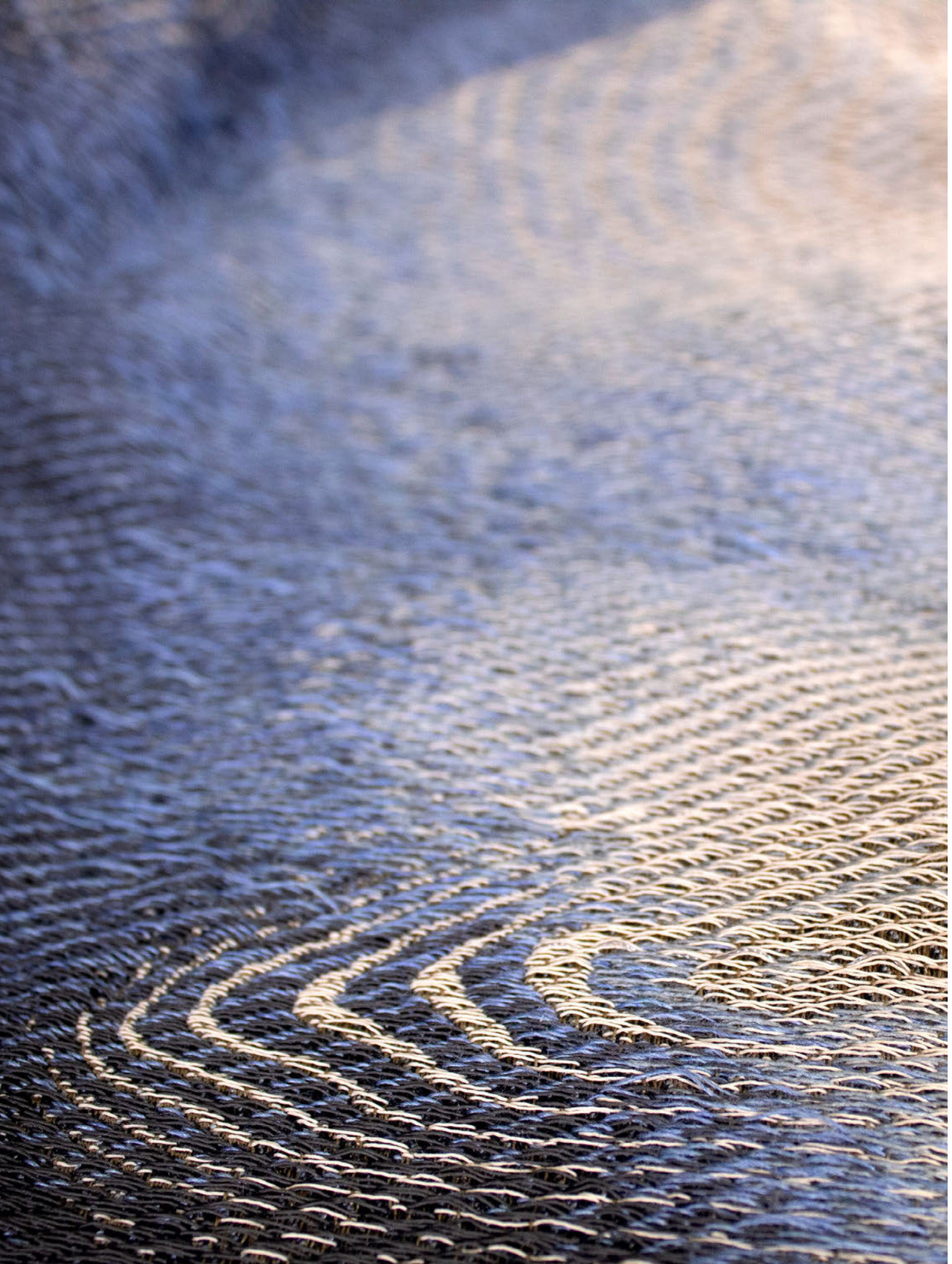


Multi-layer Jacquard-woven fabrics designed as acoustical panels for interior environments.

Prototypes (this page) and works (following pages) from *World Settings*, a collection of textiles exploring the sensory qualities of interior environments. Taking cues from gaming, 3D modeling environments and the history of architectural acoustics, the fabrics aim to modulate the experience of occupying a room in illusory ways, embedding static objects with a sense of aliveness.

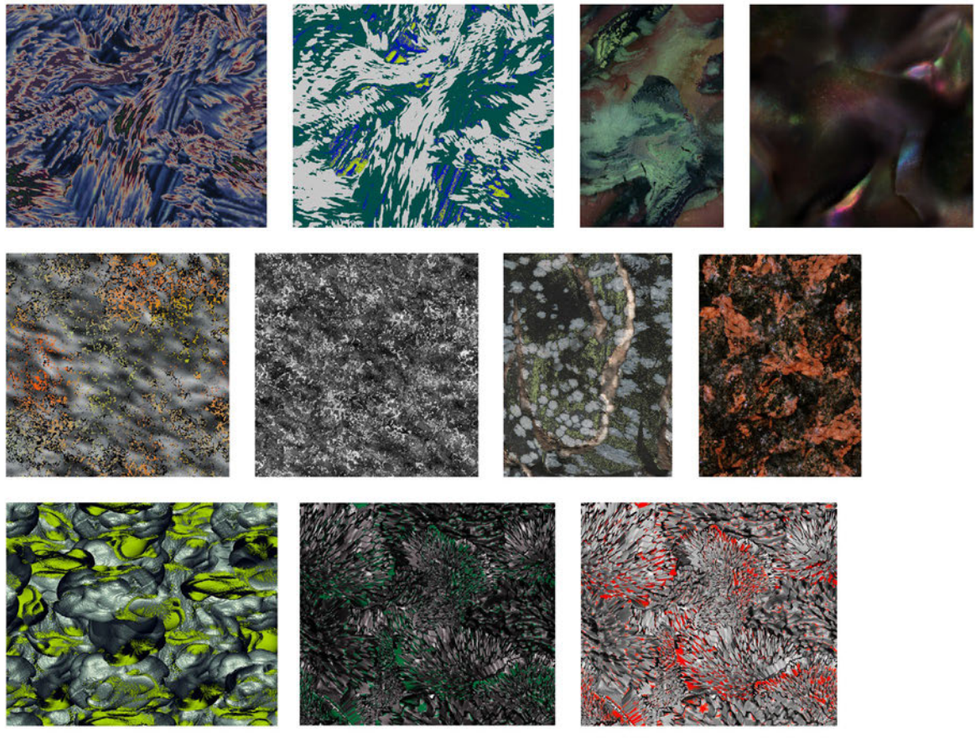




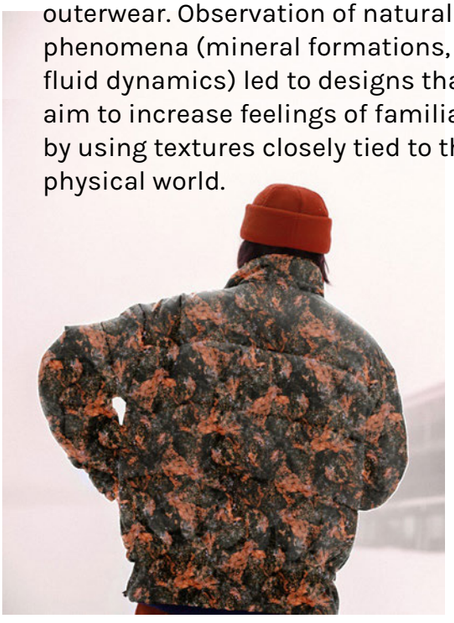


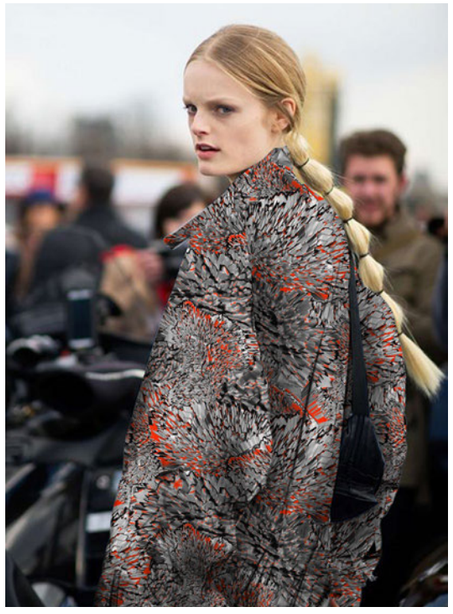
Jacquard-woven explorations of image and color gradation, layered onto textured and pleated surfaces.

Experiments in pattern, texture and three-dimensional effects, made on a computer-controlled knitting machine with AYAB hardware & software.



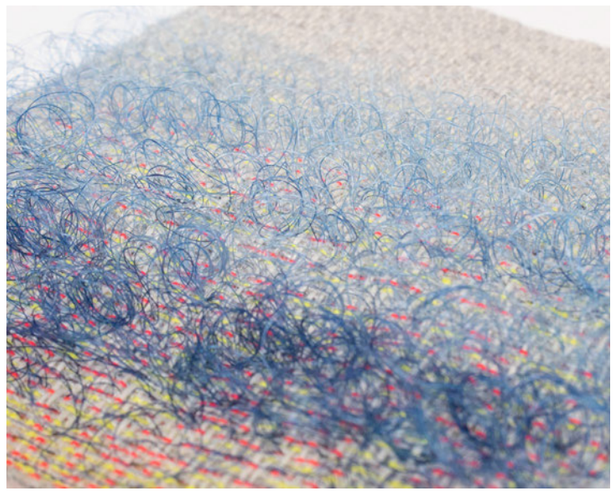
Collection of patterns developed for digitally printed and screenprinted outerwear. Observation of natural phenomena (mineral formations, fluid dynamics) led to designs that aim to increase feelings of familiarity, by using textures closely tied to the physical world.

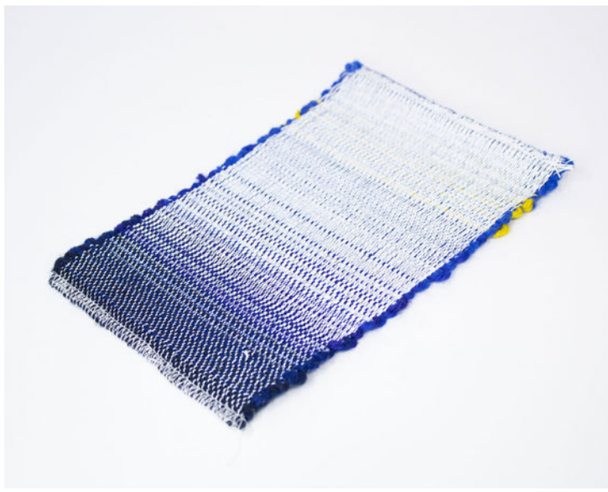
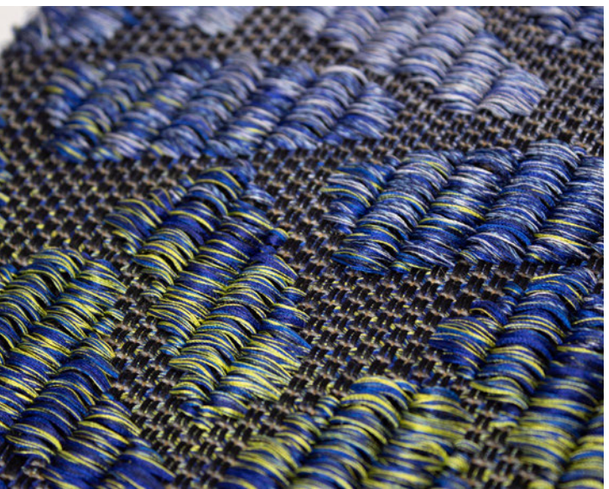


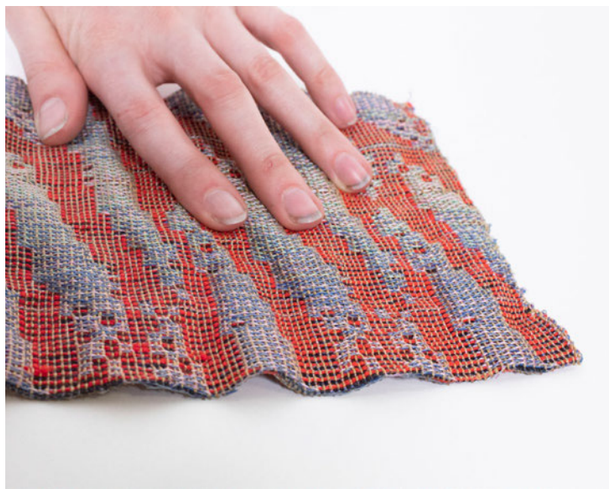


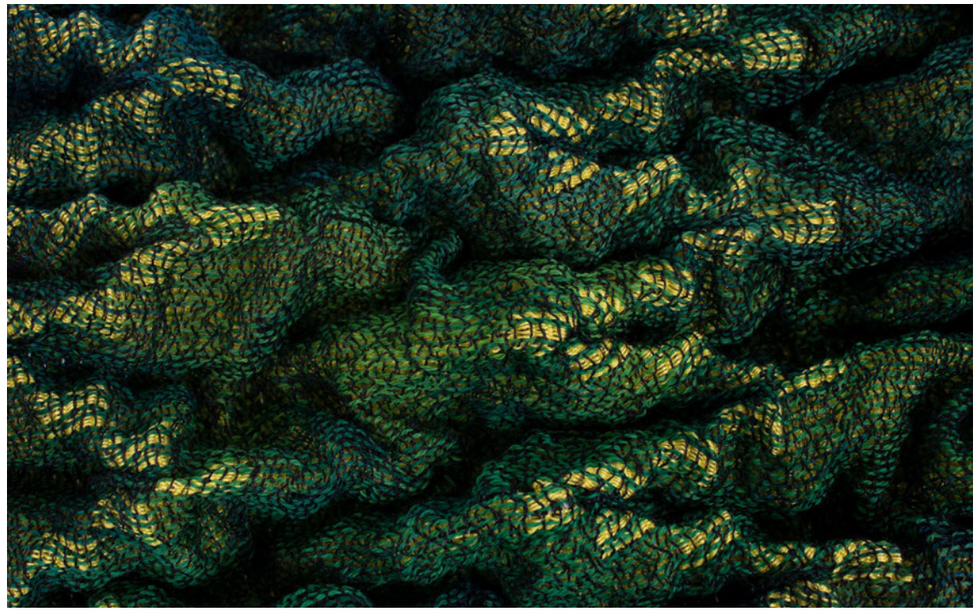


Collection of woven fabrics investigating haptic experience, both through highly textured surfaces and visual patterns of diffusion and scattering that elicit a searching, exploratory gaze. Woven on 24-harness dobby looms.

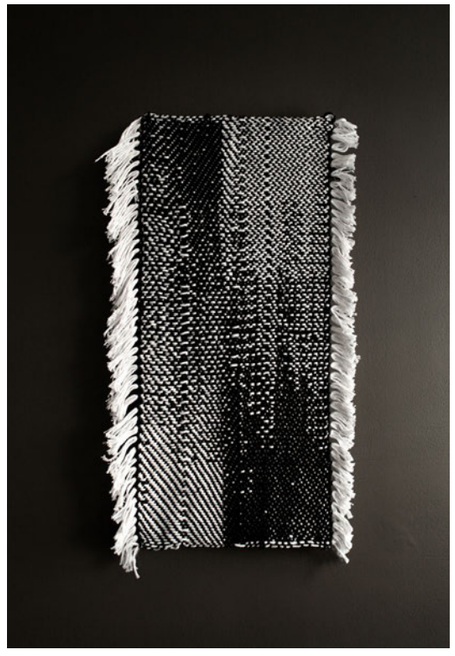



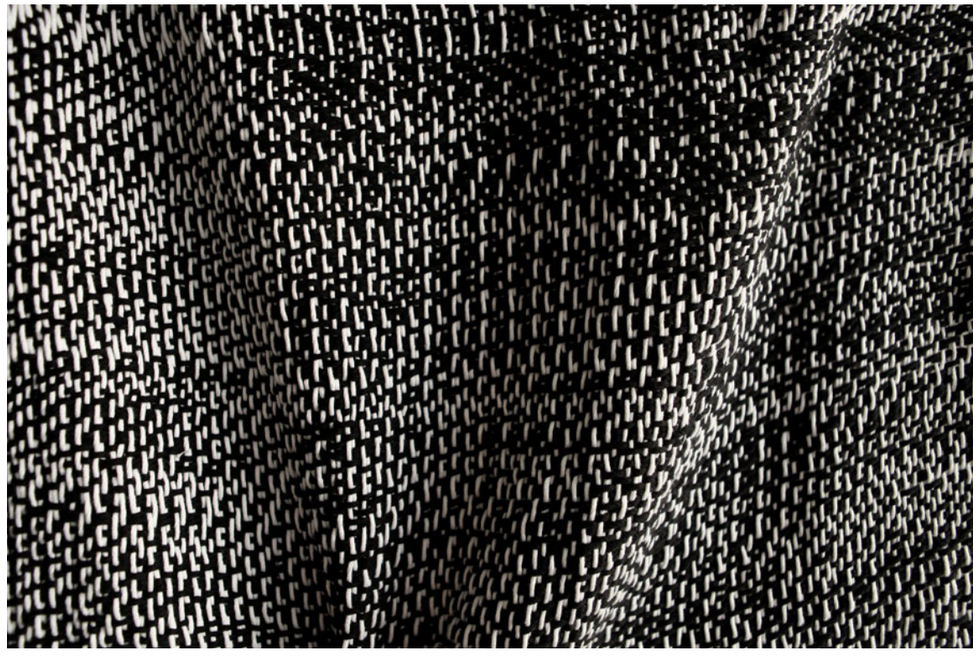





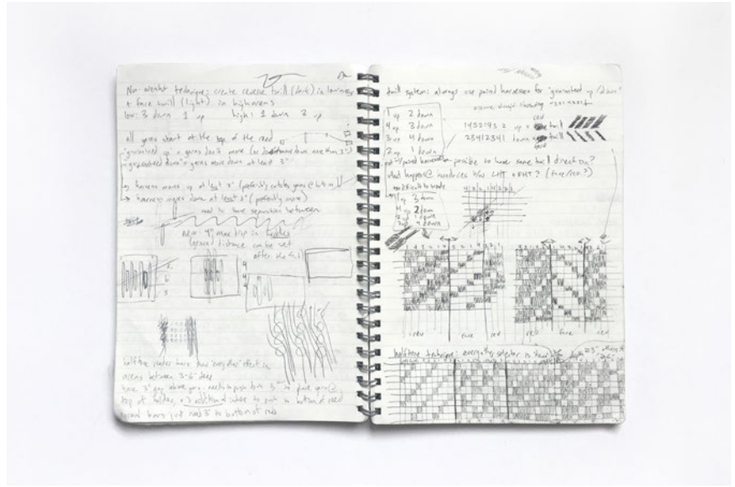
Self-folding fabrics woven on a 10-harness floor loom, resulting in thick, cushioned surfaces with pockets of air. Considering comfort when sitting or resting, the collection proposes an alternative to upholstery foam and multi-material assemblies: a single fabric that provides support through structure.

Applications for self-folding cushioning fabrics, analyzing growing sectors of the outdoor industry that value tactile, organic design language in high-performance products.

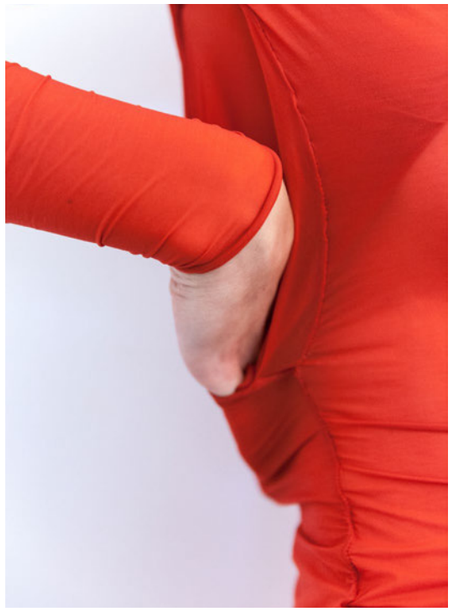




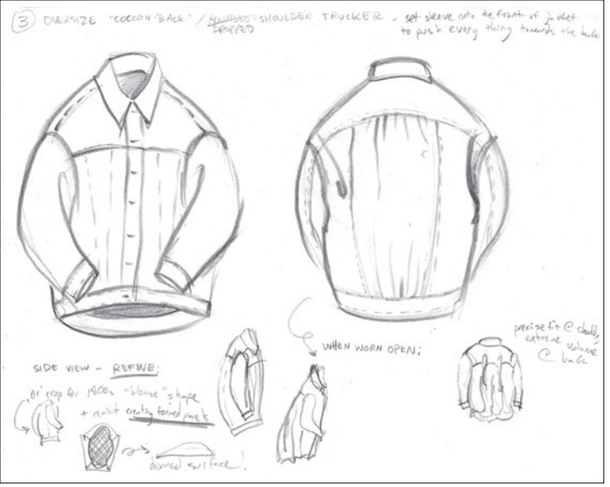
Weavings (previous page) and process work from Soft Survey, a public art project investigating micro-scale mapping and the loom as a recording tool. Supported in part by a grant from the Queens Council on the Arts.

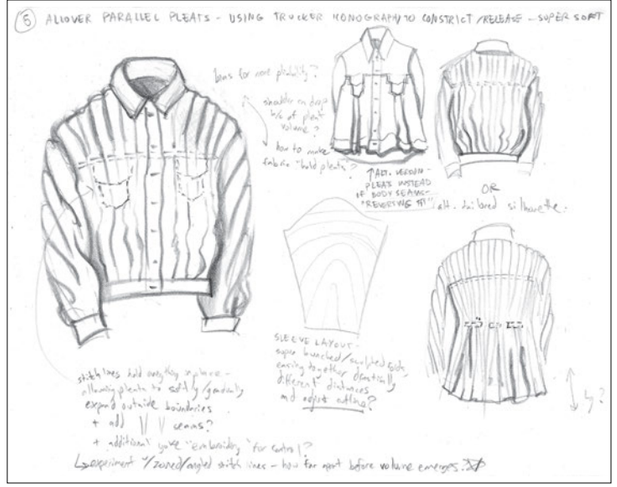


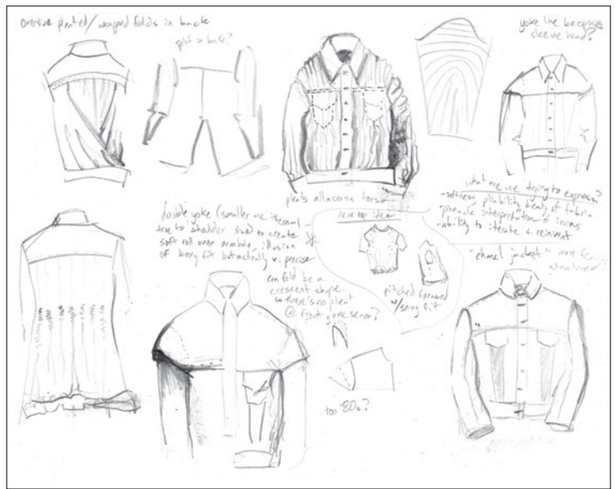
proof-of-usufruct is an investigation in raw-material sourcing constrained by physical proximity: absent any access to farms or factories, sites of commerce become the most fruitful places to gather potential dyes and fibers. Part of a larger series of archetypal garments reconstructed from presumed-finished goods, the pieces shown here are constructed from unraveled Uniqlo™ T-shirts and Wrangler™ jeans.

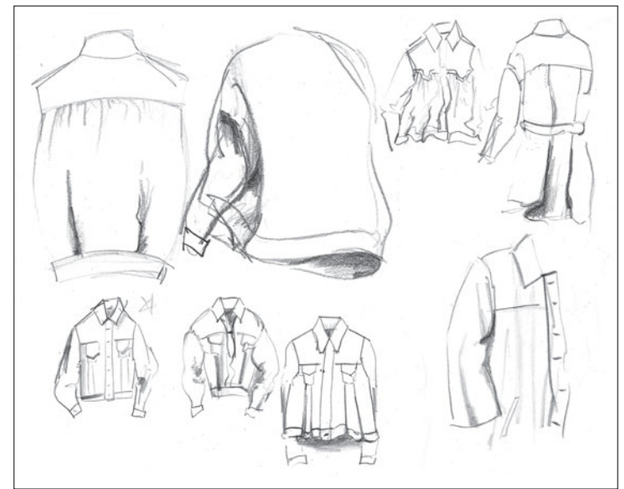


RGB Space is a collaboration with photographer Michelle Cho, designing clothing for specific compositions. Forms resolve only when posed or viewed from afar; foregrounds and backgrounds collapse into each other; garment openings allow reconfiguration and play.



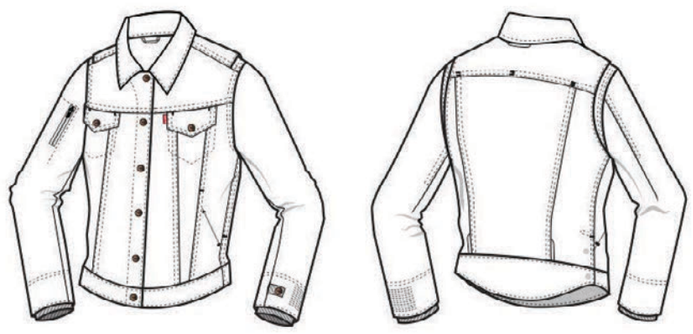






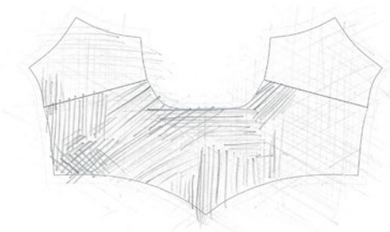
Sketches and concept direction for a proposed collection of womens's jackets and outerwear for Levi's, reinterpreting archival denim with reconstructed patternmaking and extreme silhouette.

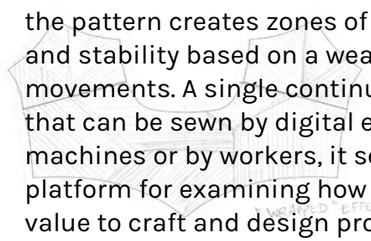
Prototypes created for Levi's innovation team, investigating new ways of making outside the apparel industry's current scope. Garments echo familiar forms while embodying radically new approaches. The jacket pictured here was shared externally (bit.ly/p9lsco); all other works are confidential.

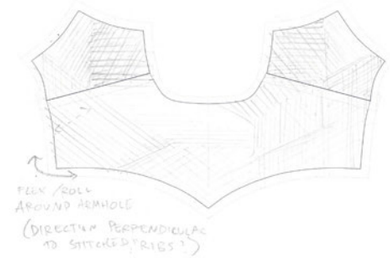


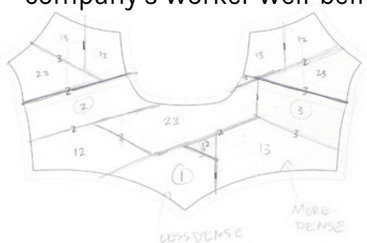
Design and component support on Levi's men's and women's Jacquard jackets, released fall 2017 in collaboration with Google. The jackets are equipped with a woven tactile interface that senses and responds to gestures. Built upon the brand's Commuter jacket, modifications were made to accomodate proprietary capacitive yarns and enable functions specific to the Jacquard user.

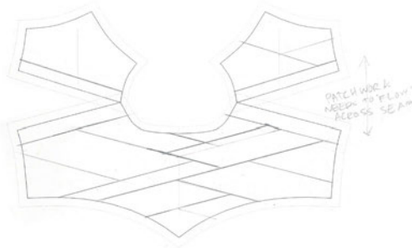
Embroidered shirt designed for Levi's Wellthread, a sustainable menswear line. Tasked with increasing durability without additional fabric usage, the pattern creates zones of stretch and stability based on a wearer's movements. A single continuous line that can be sewn by digital embroidery machines or by workers, it served as a platform for examining how we assign value to craft and design product that necessitates investment in the facility where it's made, in keeping with the company's Worker Well-being goals.

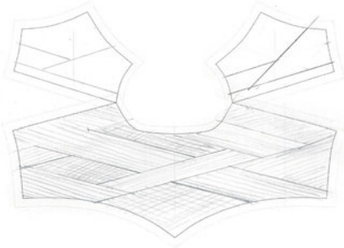


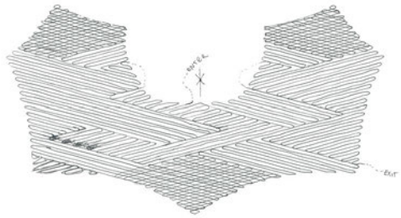


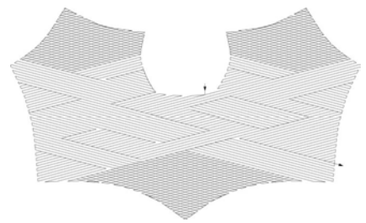


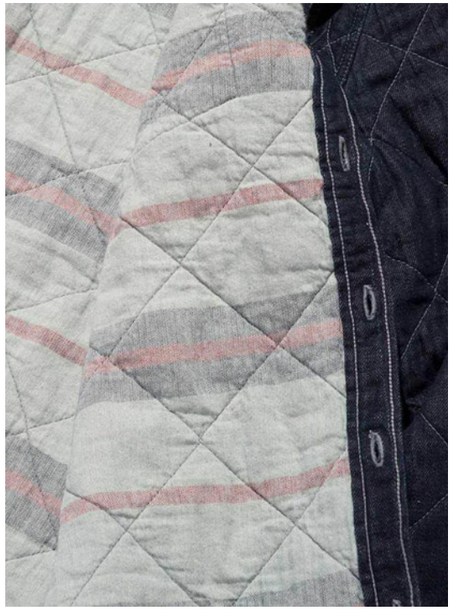












(This page and previous page) Menswear designed with circular-economy principles for Levi's Wellthread™ collection. Garments are either made from a single fiber (including fabric, trim, buttons and thread) or are designed for disassembly into single-fiber parts. They contain recycled materials and can be recycled themselves at the end of their useful life.

Range of products made with color-grown cotton, a unique fiber that requires no water or dyes to achieve its color. Bred selectively over decades to achieve extra-long staple length and rich brown color, the cotton was harvested in Arizona and spun, woven and knit in the US and India. Men's pants, jackets, shirts and knit tops were assembled from the fabrics with all cotton components, making them fully recyclable. Part of the Levi's Wellthread spring 2016 through spring 2017 collections.

Implementation of sustainable design practices for Levi Strauss & Co., piloted within the Wellthread menswear collection and extended to men's and women's mainline product assortments. *Made of Progress* was an internal design guide containing substantiated strategies and fabrics that reduced water and raw-material usage, compiled from 2015-2018.