



The interdisciplinary project "The German Look at Design - advanced TEXTILE solutions", which we proudly present in 2015, shows a collection of several BA- and MA-student projects of the Faculty Textile and Clothing Technology of Hochschule Niederrhein, University of Applied Sciences, Mönchengladbach, Germany.

Projects and research works in the following subjects are presented,

1. CREATIVE PROCESSING: SMART TEXTILES AND AUTOMOTIVE INTERIOR
2. LUXURY AND SUSTAINABILITY
3. DESIGN CONCEPTS... FOR A BETTER WORLD
4. TEXTILE PORCELAIN
5. SMART MOBILITY TO GO
6. KIDS WORLD - DESIGN CONNECTING GENERATIONS

THE CHALLENGE for the students exists in defining the typical character of each cultural design code in combination with discussing the terms "Luxury" and "Mobility" for advanced textile design solutions for tomorrow. Forecasting trends in focusing on smart AND sustainable textiles, like the currently discussed terms "Bio Couture" and "Green Smarts", are only two small aspects of research projects in a world of new materials... "Upside downing" in up-cycling design and redesign of handcraft techniques demonstrating the range of parameters regarding sustainability and creative processing...

In addition to fashion and design statements of international authors, design thinking in an analogous and digital world forecasts visions of a better world and demonstrates the power of the creative industries in Germany.

The documentation of creative processes in textile development gives evidence for the high potential and innovative power of young German design.

Ellen Bendt and Marina-Elena Wachs, 2015



ellen bendt
marina-elena wachs

The German Look at Design

advanced
textile solutions

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The German Look at Design

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Book of photographs presenting interdisciplinary projects of German design talents accompanied by statements of international professional authors.

Foto-Bildband zum interdisziplinären Ausstellungsprojekt Deutscher Designtalente ergänzt durch Statements internationaler Fach-AutorInnen

Volume fotografico sul progetto interdisciplinare di talenti tedeschi del design, completato da commenti di autrici professioniste

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CREATIVE PROCESSING:
SMART TEXTILES AND AUTOMOTIVE INTERIOR**A fictitious knitting-licensed collection for Cupcake Berlin** - MAYSSALOUN HAZZOURI**Flensburger Pilsener** - SARAH GROBE**Fashion Thinking — Smart Solutions as a Fashion Statement** - LAURA MARIE WITT**Triangle** - VERENA WINKELMANN**Smart Bionics** - LARA LEETZ**Concept — Bree "trails"** - ARIANE EHRING**Liquorice allsorts 2016** - ANJA BETTMER**iQ-leather** - VERENA WINKELMANN**Seemannsgarn** - MAUREEN MANN**The Sky is the Limit** - KATHARINA BREDLICH**Knitwear Connection** - THERESA BRINKMANN**"Colourful"** - IRENE PARISI**La Onda del Hielo** - SOPHIA KRINNER**Peace Tower** - ANNA-LENA ROHBECK**Feathery — Federleicht** - DAVINA NIEBUSCH**Aurora** - MAUREEN MANN**Data-Made Fashion** - CAROLINE SELL**The Clash** - KATHARINA BREDLICH

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LUXURY AND SUSTAINABILITY

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... FOR A BETTER WORLD**German Fashion Identity** - ALINA STROMBERG**Complete garment seamless technology in flatbed knitting** - MIYA BUDAeva**Heritage Communication** - DIANA Kliche**Remember Mali — Attention as a new luxury** - LAURA MARIE WITT**Communication Styles of German Fashion** - JULIA DOHM**Polygonal — new mobile ways of life** - NICOLE SWOBODA

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Fashion Thinking – Smart Solutions as a Fashion Statement

A VISIONARY VIEW ON SMART FASHION
OF THE FUTURE

Next to communicating our self-display, we use the new technical capabilities to monitor both our behaviour and vital functions. With quantified self a whole movement of self-monitoring and self-optimization have emerged. The textile and clothing industry has started to incorporate this trend. Smart textiles, smart clothes and wearable electronics are on the market today. Probably due to a technical impression these gadgets do not experience a general acceptance.

Creating a striking fashion statement linked with wearable electronics has not been exploited yet.

Augmented Reality (AR) is a promising trend, which might close this gap. Thinking garment in connection with AR contents an innovative type of fashion statement can be set. A statement in a form of an augmented sensory experience beyond all conventional practices is aimed.

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Smart Bionics

HAUTE TECH FOR FASHION
+ AUTOMOTIVE INTERIOR DESIGN

Source of inspiration for Haute Tech comes from nature. Bio mimetic refers to the transfer of intelligent strategies from nature to technology. Smart textiles, with enhanced functionality, are getting to green smarts under bionic properties with sustainability criteria. In this work, the surface texture of fish scales and their mechanical properties are transferred onto a technical textile by simulation. The innovation is Haute Tech: A high-tech textile construction of a multi-layer leather hybrid with functionalized surface. Haute Tech is quilted with an electrically-conductive yarn with photovoltaic properties. The power supply is textile-based and can be integrated into outdoor clothing and ski fashion. It also provides an application to microsystems in the dashboard or steering wheel of e-cars. The dichromatic scale leather surface with reflective properties alternates multi-coloured. The volume-making wool fleece in between and the third neoprene layer offer excellent air entrapment and supply protection against impact and injury.

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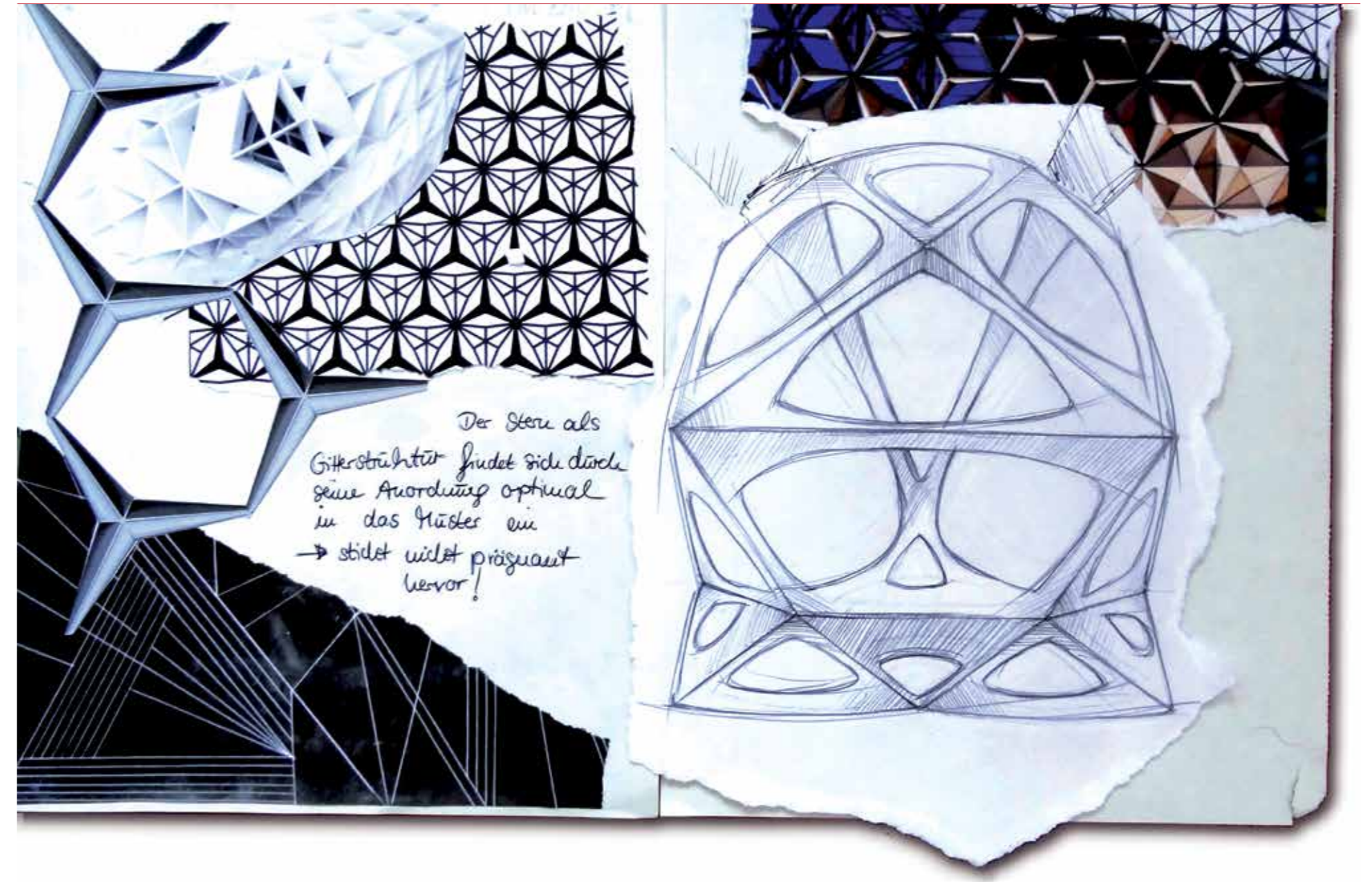
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iQ-leather

LIGHT LINES IN LEATHER DESIGN FOR
>BLUE LUMINOUS< DESIGN CONCEPT

New ecological manufacturing processes in the leather industry facilitate a production of non-toxic leather. Compared to the well-established chrome tanning, vegetable tanning utilizes solely natural tanning agents to preserve our environment. Especially for luxury consumers of today's society, sustainability moves more and more into focus. That's why the aspect of 'Green Luxury' gets more important for premium automotive manufacturers. This new ecological awareness produces a great challenge for enterprises of the lifestyle industry – developing innovative and sustainable ideas. With this tension between innovation and tradition, sustainable and forward-looking design this applied research project generates the interdisciplinary design concept 'BLUE Luminous'. For this reason wood and vegetable tanning leather join photo luminescent pigments and colours to produce a fascinating new automotive, bicycle and backpack design called travellum.

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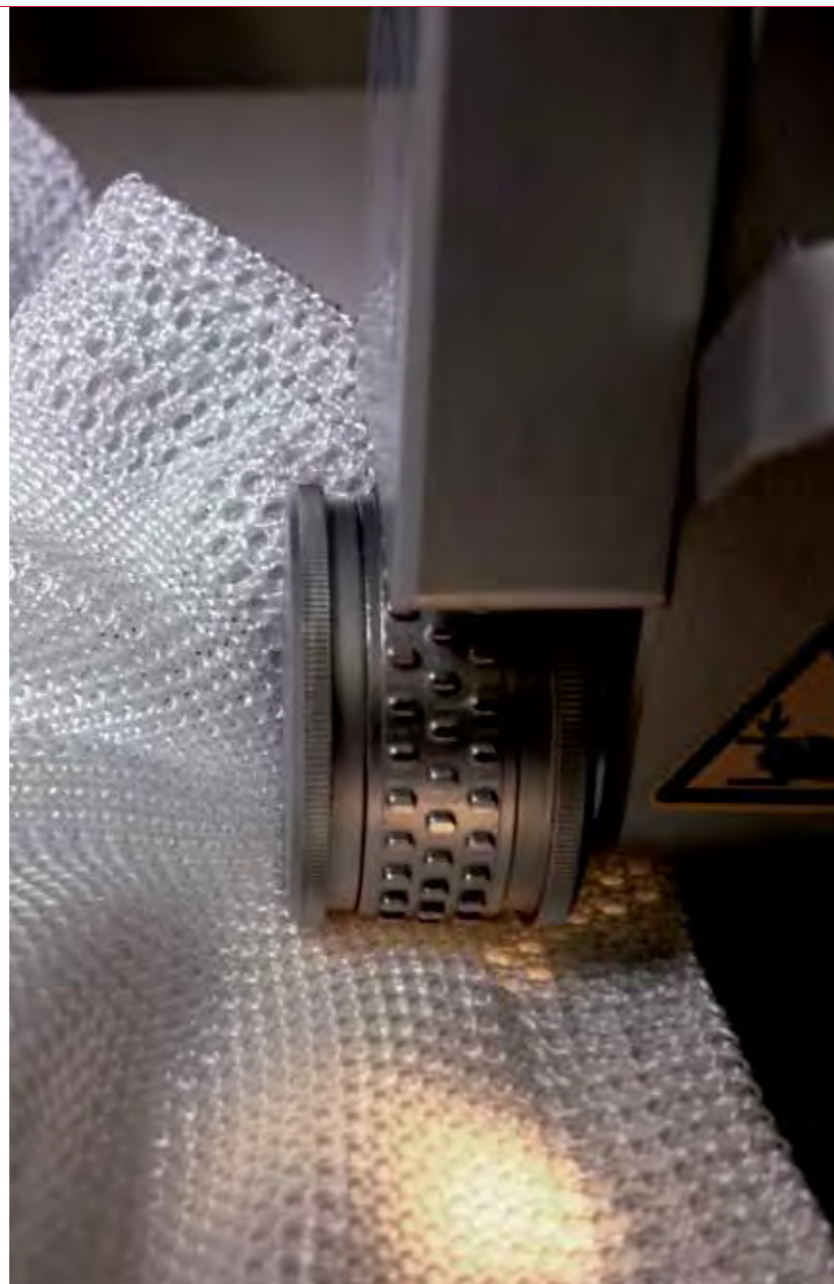
Knitwear Connection

ULTRASONIC WELDING FOR WEFT-KNIT
STYLES

This work is based on a research project which examines the possibilities to join weft-knitted fabrics with ultrasonic welding. The knitted fabric used for the project is knitted on Stoll CMS 302 TC and made from Diolen® 150BT, a type of "green polyester", which is based on polylactic acid (PLA) and 100% derived from renewable resources. Furthermore, it is biodegradable and compostable.

Combining an innovative joining technology and a technical, sustainable yarn shows that new technologies are not only well-suited for industrial applications but also for high-fashionable garments.

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Data-Made Fashion

CREATIVE DIGITAL PROCESSES
FOR FASHION & TEXTILES

Digitization is a ground-breaking social transformation that is currently expressed in different design objects of digital origin. The current phase of the digital medium being fully established offers great potential for fearless and creative exploration of this medium. After already having been able to simulate the analogous, creating life-like appearance, the next step is to materialize the digital aesthetics and bring them into real form.

This work examines the potential of digital design and development processes for fashion and textile design. A particular focus is placed on the process of operating in virtual space and on data in their capacity as working material. Digitally-destroyed graphics (so-called glitches) are the base of these two outfits. The digital graphic errors were transformed into tangible knitwear. The pixels became stitches, the abstract digital graphic turned into soft, touchable and wearable items of clothing. Knitted on Stoll CMS 302 TC.

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See through denim

METAMORPHOSIS THROUGH A LIFE CYCLE

The amount of donated used clothes and textiles in industrial nations is much higher than needed.

It is high time to find new ways to use this surplus to develop materials and products instead of annihilating them.

The project "see through denim" involves the development of a new composite material, from used textiles and the appliance of that material in a product.

Inspired by the characteristics of wood, layers of used denim are combined with synthetic resin to reach similar attributes. Through experimenting with different processing methods the result is a very hard material with a special grain look.

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invisible TOUCH with a secret SOUL

GERMAN DESIGN MEETS JAPANESE VALUES

The key concept of this project is based on the idea of symbiosis between past and future and unites design strategies for intercultural exchange between Japan and Germany with the highest demands on innovation and quality in DESIGN.

The traditional Japanese textile crafts served as a source of inspiration for the creative process. Furthermore the simplicity of German design product language and the strong technical orientation (characterised by "Made in Germany") were used to create a smart design concept with a particular focus on the cultural heritage of both countries.

The Primary Goal to be achieved was deepening cultural understanding and creating a dialogue based on design between two industrial nations and societies by saving their own characteristics - in touching the soul of German and Japanese (design) values.

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Complete garment seam- less technology in flatbed knitting

OPPORTUNITIES FOR SOPHISTICATED
FASHION COLLECTIONS?

Twenty years ago the first automatic flatbed knitting machine was introduced that can knit seamless complete garments. This Knit & Wear products have several obvious economical, aesthetic and ecological advantages. Today it still seems to be not widely accepted by the apparel industry. Is this first impression right? And if so, why hasn't this technology expanded as expected? This project deals with the subject of possibilities and problems of Knit & Wear production. It explores the opportunity of making a trend-oriented fashion collection in Europe and other geographic regions. Furthermore, it gives a full overview of the seamless knitting chain.

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Communication Styles of German Fashion

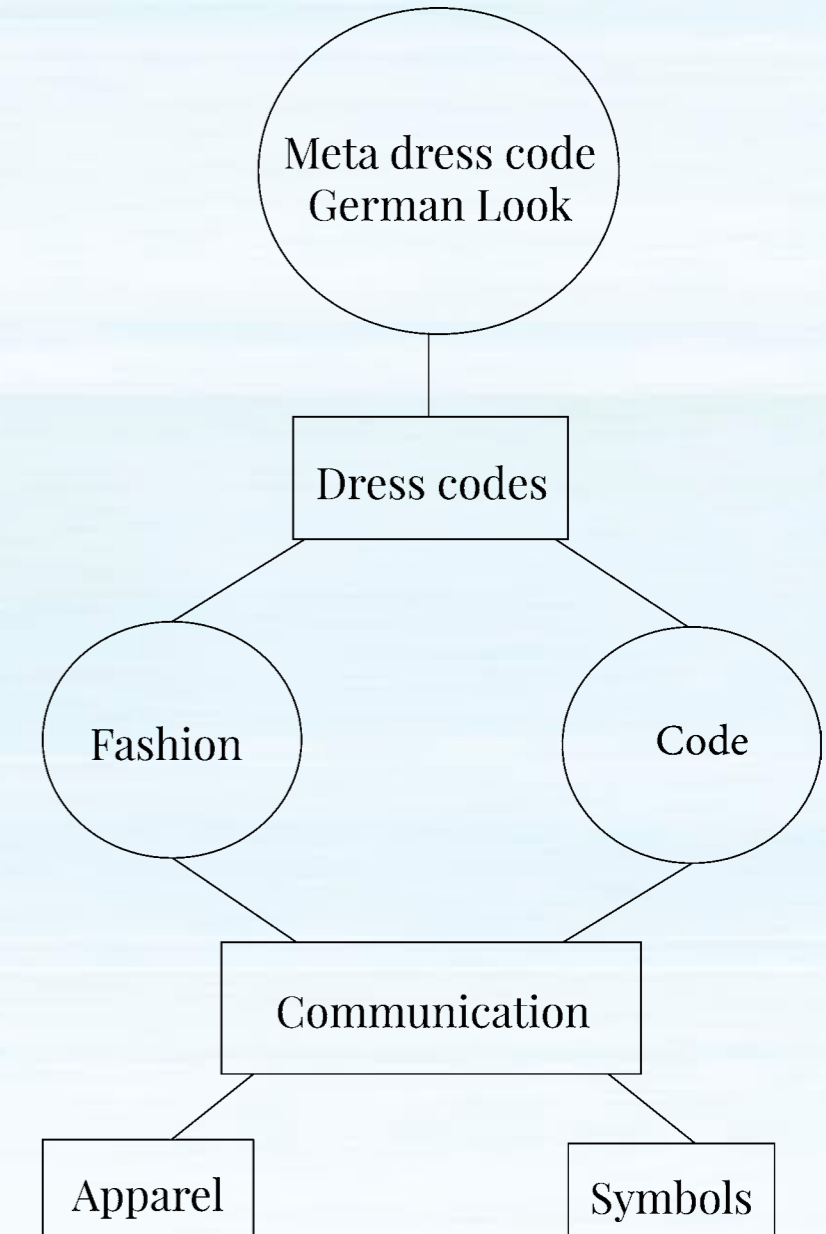
IS THERE A GERMAN DESIGN LANGUAGE
THAT IS UNDERSTOOD AS A DRESS CODE?

This work discusses dress codes and the question whether there is a German design language that can be understood as a national dress code. In order to understand the development and origin of dress codes, the thesis illuminates various aspects of different fields of sciences, such as communication theory and sociology.

It also expands on fashion- and design theory. An excursion about on design and design language helps to identify the parameters by which "German Design" can be measured - case studies of German product design by Dieter Rams and fashion design by Jil Sander, for example, in a comparable space to European brands like Valentino. Different looks of German fashion designers are analysed in order to evaluate to what degree those parameters can be traced and found in them to strengthen the German fashion language as prospective economic benefit for the German economy.

The results of the thesis give answer to the question of how the 'German Look' performs and communicates as a superior dress code of the Germans and if it does so consciously or not.

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Lustgrund

METAMORPHOSES OF TEXTILE FABRIC WITH
 THE MEANS OF THE TRADITIONAL BOBBIN
 LACE TECHNIQUE

The main task is to provide contemporary solutions for a revitalisation of the almost forgotten bobbin lace technique. In particular, one specific way of yarn construction, the so-called Lustgrund, has served as inspiration and as a model for developing innovative surfaces and forms.

The metamorphoses of Lustgrund by transferring it to – from the point of view of textile design – rather unorthodox materials like plastic, glass and porcelain, has proven fruitful and has yielded promising products. By dipping, embedding and calcination the Lustgrund-textile, promising outcomes like lampshades, glass objects and porcelain bowls have been produced.

If it is possible to strengthen the reintegration of bobbin lace technique in their different shapes into the world of design, its full variety in form and structure could be unfolded.

COACH: PROF. ELLEN BENDT,
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Zapacado

For the realisation of an innovative shoe model a new sustainable material was chosen. Therefore Avocado stones were used, which have often been considered as a waste up to now.

To show how much potential this material has, a shoe was realized, which mostly consists of avocado stones and recycled materials.

First of all, many different experiments had to be performed to find out how to work with the Avocado stones. The shoe model shows one of the ways of how the stones can be processed and used. To name the most important steps, the avocado had to be cut into different sizes and dried in a special mould. The sole is made of a recycled wooden sole. As a consequence of the properties the avocado determines the shape and the colour of the "Zapacado" shoe.

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Grow

The collection Grow creates a new contemporary look by combining classic sneaker silhouettes with sophisticated textile design technology.

Grow is inspired by bionic structures that you can find in coral reefs, stone reliefs and on the skin of reptiles. Natural textures are imitated by artificial and synthetic materials. For the realisation of the collection differently-coloured silicon and laces have been developed. Due to the variations in the open structure of the lace fabric it is possible to create multiple surfaces.

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German Kids Clever Against Darkness

"To the children this project has two advantages: the feeling of pride after creating a self- and HANDmade object combined with the safety-effect in the darkness of winter time." German kids clever against darkness is a four months project by product developer Jennifer Jandoo in cooperation with Prof. Dr. Marina-Elena Wachs, implemented at Jakobus Elementary School in Grevenbroich. Promoting handicraft, the project allows the children to craft crochet vests and hats with a surface reflecting light when illuminated (of e.g. cars' headlights), to be better seen in the darkness of the streets.

Jennifer Jandoo designed a process to work with elementary school students to introduce at an early stage the concept of a handcrafted- and linguistic-based education with the help of motor skills within society. Furthermore, counteracting the loss of traditional (textile) handicraft due to a generation change was utterly significant in this project. Both cultural and regional historical textile heritage of handicraft techniques were conveyed to generate textile experts for our future. German Kids clever and safe!

COACH: PROF. DR. MARINA-E. WACHS



Making of project film “The German Look at Design – Advanced Textile Solutions”,
Berlin, Germany, January 2015



Link to film:
<http://youtu.be/SQFILwcbktQ>

