

## **Objective**

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Highly motivated analyst and researcher, seeking a Research position, to utilize my well-developed and extensive research and analytical skills.

## **Professional Profile**

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- Well-developed research and analytical skills; Diverse background and exposure to sectors such as Technical and Medical textiles, colour physics and psychophysics
- Extensive software proficiency covering a wide variety of applications including Microsoft Office Suite, MATLAB, Tobii-Studio and Adobe-Photoshop
- Proficient in managing various technical instruments including Spectrophotometer, Scanning Electron Microscope and Eye-tracking Technology
- Results-driven achiever with outstanding planning and organizational skills, along with a high degree of detail orientation
- Dependable, flexible team player thriving in environments that require ability to effectively prioritize and deal with multiple tasks
- An excellent listener and communicator, effectively conveying information verbally and in writing
- An enthusiastic professional, eager to accept new challenges with high level of motivation.
- Fluent in English and Urdu

## **Key Strengths**

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- Electron Microscopy
- Problem-Solving
- Research Analysis
- Public Speaking
- Technical writing
- Mentoring & Tutoring
- Quantitative Research
- Material Science

## **Education**

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### **Ph.D. (Faculty of Engineering and Physical Sciences)**

The University of Manchester, School of Materials

**Manchester, UK**

**2013**

Advisors: Dr. Huw Owens and Professor Chris Carr

- Scholarship awarded by The University of Manchester and Croda PLC, UK

Thesis: Physical and Computational Models of the Gloss Exhibited by the Human Hair Tress: A Study of Conventional and Novel Approaches to the Gloss Evaluation of Human Hair

### **MSc. Textile Technology**

The University of Manchester, School of Materials

**Manchester, UK**

**2006**

- MSc. with Distinction in Textile Technology

Dissertation: Investigating the Manufacture and Properties of Antimicrobial Wound Dressing Materials

### **BSc. (Hon.) Textile Sciences**

Textile Institute of Pakistan

**Karachi, Pakistan**

**2002**

## **Professional Experience**

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### **Teacher's Assistant**

*The University of Manchester*

**Manchester, UK**

**2008– 2012**

- Utilized student focused interactive approach for tutorials sessions to enhance develop and expand the knowledge from courses lecturer

- Taught Undergraduates and Post-graduates students laboratory oriented courses such as;
  - Textile Fabric performance and evaluation (Alison Harvey)
  - Textile Fabric dyeing and testing (Dr. Muriel Rigout and Dr. Huw Owens)
  - Introduction to Textile Materials and testing: Textile Calculation (Dr. Bill Sampson)
- Planned and organized tutorial sessions according to curriculum. Ensured through the interactive tutorial sessions students were supplemented in their learning material and assisted in final projects
- Mentored students with personal and university related problems.

### **Sr. Merchandiser**

*Inter-Source (Textile-buying House)*

**Karachi, Pakistan**

**2004– 2005**

- Developed macros using MS Excel to estimate the cost of the garment to be manufactured for buyers price quotation
- Applied effective planning and organisational skills to manage accounts independently for suppliers and customers
- Developed a feedback system to update the customer about the orders
- Performed quality checks on products and audited batches being sent out to the market

### **Merchandiser**

*Naveena Industries Pvt. Ltd.*

**Karachi, Pakistan**

**2002– 2004**

- Promoted teamwork and team spirit in the workplace. Developed a reward-system to boost the enthusiasm of the factory workers
- Inspected every stage of the manufacturing process to make sure that the quality of the fabric being produced was up to the company standards

### **Awards and Accomplishments**

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- Ph.D. Scholarship awarded by The University of Manchester and Croda PLC, UK (Manchester, UK 2010)
- Teachers Training Certificate University of Manchester Recognized Teaching Assistant (Manchester, UK 2009)
- Awarded course prize in recognition of best performance in MSc. programme (Manchester, UK 2006)
- Designed University annual magazine; Textile Institute of Pakistan's Publication (Karachi, Pakistan 2000)

### **Research Achievements**

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*The main objective of the research was to create a model for measuring hair shine, which correlates to human perception.*

Research made unique contributions in the following four main areas:

#### Sample preparation

- During the sample preparation phase of the project a novel technique was developed, in order to create different level of hair shine, consistently, on the human hair tress. As application standards were sparse in this area.

#### Gloss Image capture and processing

- Developed a colour-calibrated Gonio Image Gloss capture system with a novel sample presentation stage featuring alignment and tensioning.

#### Gloss Models

- A New part of the reflection band, the Chroma-Specular ( $C_s$ ) band, was identified on the hair tress.
- Two New gloss evaluation models  $ROC_1$  and  $ROC_2$  (Rizvi-Owens-Croda) have been developed and assessed

#### Psychophysics

- Developed two graphical user interfaces (GUIs) using MATLAB, for the psychophysical evaluation of the gloss difference of hair tresses

### **References**

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Available Upon Request