



Freya Jayne Tatham
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BEng (Hons) Materials Science and Engineering with a year in industry **The University of Sheffield** (September 2020 – June 2024)

Modules: Composite materials / Final year research project / Finance and Law / Finite element modelling / Industrial management / Metals / Materials for biological applications / Surface degradation and protection / French

Final Year Research Project:

In collaboration with Alpkit, I will create a life cycle analysis (LCA) of their Sigma waterproof jacket, analysing the effect of its monomaterial properties on its end of life. This was inspired by Gore's Waterproof Jacket LCA and I hope to create a meta-analysis collating data from a range of waterproof jackets.

Industrial Placement Year Employment

▪ **Repair Engineer** - Alpkit www.alpkit.com (January 2023- September 2023)

As a repair engineer at Alpkit Hathersage, I was responsible for fixing gear of any outdoor brand, from Arc'teryx jackets to MSR tents. This gave me a great insight into the most common problems in the outdoor industry. I developed my problem-solving skills through tackling each unique repair as well as my organizational skills, running the workshop and turning the 10week waiting list to 6weeks through my efficiency. I engaged in impactful outreach initiatives while championing sustainability practices, as well as improving my interpersonal skills sharing expertise in enhancing product lifecycle durability, ensuring both environmental responsibility and customer satisfaction.

▪ **Innovation Assistant** - Camira www.camira.com (September 2022 - December 2022)

As an Innovation Assistant at Camira Fabrics, I actively contributed to a diverse range of projects: upcycling mixed thread waste; exploring the advantages of monofibres; troubleshooting manufacturing line problems; implementing bast fiber technologies; advancing closed-loop manufacturing; researching environmentally friendly flame retardants; understanding technical knitting methods; pioneering new color development; and refining dyeing processes; fostering a comprehensive understanding of sustainable practices and innovative textile technologies.

Extra-curricular

- **Triathlon Club Secretary** As club secretary I assisted the president in the running of the club, taking meeting minutes and writing weekly emails to club members. I also organised a successful 7 day training holiday to Spain, taking responsibility for 20 of our club members.
- **ShUOC Training Officer** As training officer, I organised weekly training sessions for the University fell running club, such as intervals, strength and conditioning and kept the club motivated to achieve their training goals.

Employment

▪ **Product Assistant** ReTribe Clothing www.retribe.co.uk (Sept 2023 – Present)

Parallel to studying I work at a small startup business developing innovative apparel by upcycling tents, fostering a keen eye for quality and honing my skills in pattern making.

▪ **Sales Assistant** Alpkit (Mar 2022 - Sept 2022)

Sales of technical outdoor clothing for rapidly expanding company.

▪ **Sales Assistant** Up&Running (Aug 2021 - Mar2022)

As a team member of a specialized running shop, I adeptly served customers, conducted comprehensive gait analysis, and gained a profound understanding of the running shoe market, developing the ability to recommend tailored solutions for optimal performance and customer satisfaction.

▪ **Personal Assistant** (July 2020 - 2021)

Assisted a young man who has special needs with academic studies in Mathematics & English. Alongside leading his training for the Paralympic Athletics Pathway (runs, circuits, S&C sessions).

Work Experience

▪ **Publicity Officer** Downhill Design (Nov 2023 – present)

Student led engineering society designing a downhill mountain bike. Management of the publicity pages, staying up to date with the process and communicating the development across all platforms.

▪ **Product designer** Scottish Canoe Association (Mar 2023 – present)

Designing on CAD and manufacturing a custom order of adaptive kit to make paddle sports more accessible and affordable for disabled people.

▪ **Online Primary Mathematics Tutor** (December 2020- July 2021)

Supported a nervous student who had lost confidence in his abilities.

▪ **Bournemouth Symphony Orchestra** (July 2019)

Helped to organise and run the Summer Proms in the Park and through this achieved Level 1 Bronze Arts Award from Trinity College London.

▪ **Finisterre** (July 2017)

Work at a local cold water surfing brand in customer care, complaints, returns and the warehouse. Learnt about the wetsuits from wetsuits program, recycling neoprene, which inspired me to study materials science at university.

Education

Millfield School: (2018 – 2020) Headmaster's Scholarship & Head Girl
A Levels: Mathematics (A) Chemistry (A) French (B)

Loughborough College: (2018 – 2020) England Hockey
BTEC Level 3 Diploma: Sporting Excellence Lilleshall National Sports Centre

Helston Community College: (2013 – 2018) Head Girl
GCSEs: 12 (A**/A) incl. English Language (A*) and Maths (A*)

Mullion School: (2016)

European Computer Driving License (ECDL) Distinction**

Additional Qualifications

- Level 1 Hockey Umpire (unassessed) Qualification
- British Gymnastics Award Scheme Core Proficiency
- PADI – Advanced Open Water Diver
- Gold, Silver and Bronze Duke of Edinburgh Awards
- UK Linguistics Olympiad Bronze Award
- ABRSM Grade 5 Music Theory
- ABRSM Grade 8 Classical Flute
- ARSM Performance Diploma Flute (Summer 2020)
- Full UK driving license.

References

Professor Nicola Morley,
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Ben Harman, Product Designer
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