Elliot Johnson-Hall

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Personal Statement

Education

University of Bristol - MRes Health Sciences Research

Thesis:
Supervisor: Dr James Armstrong

Awards:

University of Edinburgh - BSc (Hons.) Anatomy & Development

Dissertation: *Multi-material additive manufacturing to recapitulate the osteotendinous enthesis: an exploration of tensile properties and cytocompatibility.*
Supervisor: Dr Jennifer Z Paxton

Awards: Most distinguished scholar in Clinical Biochemistry & Endocrinology 3

Short Courses

University College London - Introduction to Statistics & Research Methods

University of Edinburgh - Developing Your Data Skills

Research Interests

Musculoskeletal tissue engineering; 3D cell culture; additive manufacturing; bioinks & bioprinting; cell-instructive biomaterials; bioreactors for mechanical cellular stimulation.

Research Experience

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Skills

Cell culture: Primary mammalian cell culture; cytotoxicity, cell adhesion, and cell viability assays; phase-contrast & epi-fluorescence microscopy.

Data analysis: Proficient in R, including the tidyverse, for large (10s of millions of rows) data analysis.

Programming: Familiar with Python, Arduino IDE, LaTeX.

Figure compilation: Adobe Illustrator & Photoshop; BioRender; ImageJ & FIJI.

Additive manufacturing: skilled in multi-material FDM; Ultimaker Cura, Prusa Slicer; Autodesk Fusion 360 CAD.