



University of HUDDERSFIELD

University of Huddersfield Repository

Grain, Emma

3d Printing: Virtual draping the new moulage

Original Citation

Grain, Emma (2015) 3d Printing: Virtual draping the new moulage. In: Creative Cut, 24th - 25th February 2016, University of Huddersfield, UK. (Submitted)

This version is available at <http://eprints.hud.ac.uk/id/eprint/29323/>

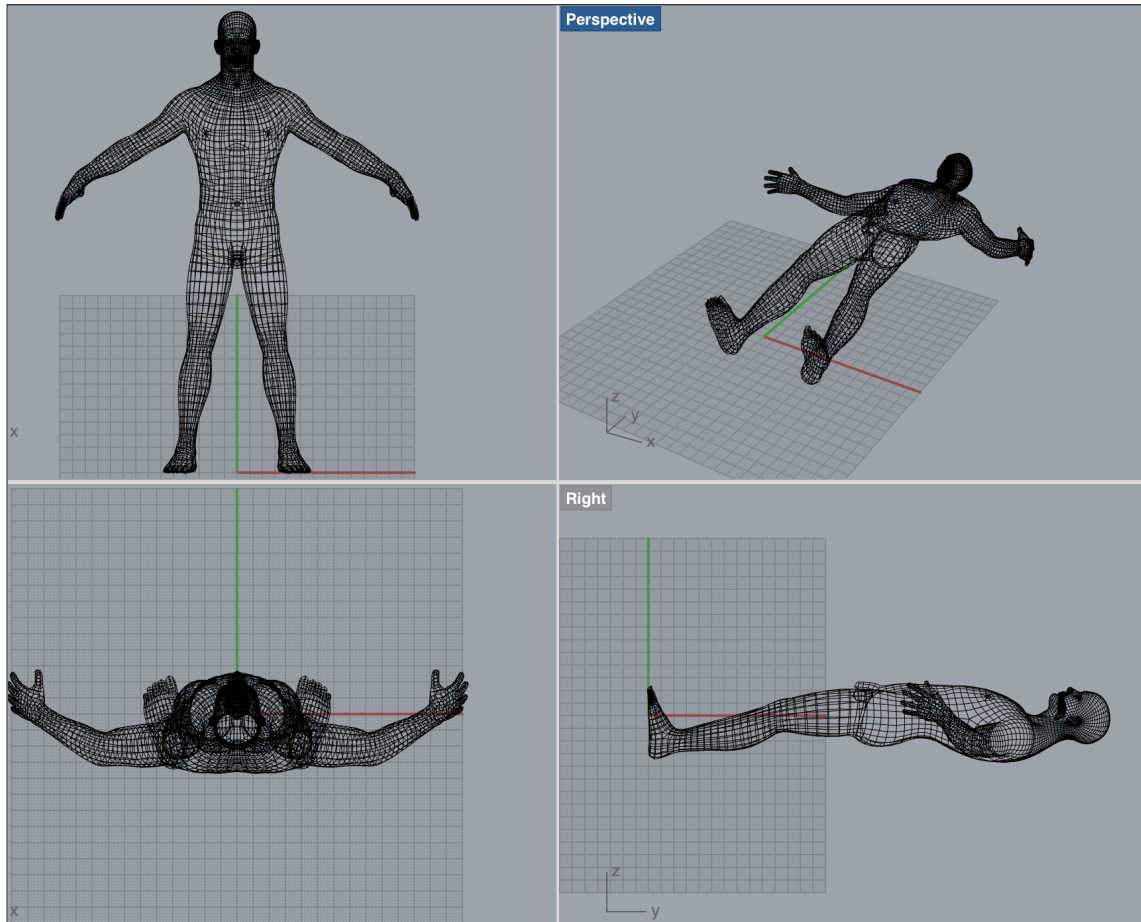
The University Repository is a digital collection of the research output of the University, available on Open Access. Copyright and Moral Rights for the items on this site are retained by the individual author and/or other copyright owners. Users may access full items free of charge; copies of full text items generally can be reproduced, displayed or performed and given to third parties in any format or medium for personal research or study, educational or not-for-profit purposes without prior permission or charge, provided:

- The authors, title and full bibliographic details is credited in any copy;
- A hyperlink and/or URL is included for the original metadata page; and
- The content is not changed in any way.

For more information, including our policy and submission procedure, please contact the Repository Team at: E.mailbox@hud.ac.uk.

<http://eprints.hud.ac.uk/>

EMMA GRAIN



Prepared by: Emma Grain, Lecturer in Fashion Technology (MMU)

Menswear Designer & Huddersfield University Alumni.

Conference: Creative Cut: The Second International Conference for Creative Pattern Cutting

At: Huddersfield University

3D PRINTING :VIRTUAL DRAPING THE NEW MOULAGE

This practice-based enquiry aims to examine design and manufacturing possibilities using 3D CAD and 3D printing and to systematically test a range of materials in order to establish those appropriate for 3D printing fashion. The feasibility of draping and sculpting materials virtually onto the body using Rhino (3D CAD software) will be explored. Unlike former virtual 3D modelling where a pattern could be made from the draped fabric on an avatar, this enquiry will explore whether printing the material directly from the software can eliminate the need for traditional pattern cutting in this process. Since 2012 3D printing has emerged as a new method of manufacture for clothing. This is mainly evident in experimental sculptural forms for women. Working in collaboration with 3D Systems (the founding company of 3D printing), will ensure precise and well informed results and these will be fed back through this investigation.

Key words: 3D Printing, 3D CAD, Virtual Design, Virtual Pattern Cutting, Avatar, Rhino, Modelling
