

## Sana Waheed

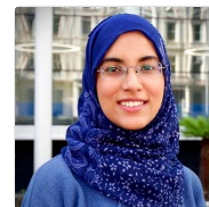
Assistant Professor

School of Mechanical & Manufacturing Engineering

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## About

Dr. Sana Waheed is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Sana Waheed has a PhD in Computational Solid Mechanics. Dr. Sana Waheed has published 6 research articles & conference papers having a citation count of 214, carried out 1 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Computational Solid Mechanics</b> Imperial College London , United Kingdom	2015 - 2018
<b>M.E in Bioengineering</b> University of Cambridge , United Kingdom	2013 - 2014
<b>BA in Engineering</b> University of Cambridge , Pakistan	2010 - 2013

## Experience

<b>Assistant Professor</b> School of Mechanical & Manufacturing Engineering	2021- Present
<b>Assistant Professor</b> School of Mechanical & Manufacturing Engineering	2018 - 2021
<b>Assistant Professor</b> School of Mechanical & Manufacturing Engineering	2018 - 2018

## Awards

<b>President's PhD scholar</b> Imperial College President's PhD Scholarship. Awarded to only 50 candidates globally each year. Covering full cost of PhD studies for 3.5 years with living allowance.	2015
<b>800th Anniversary Scholar</b> Cambridge University 800th Anniversary Scholarship. Awarded to only 2 Pakistani students each year. Covering full cost of undergraduate studies for 4 years with living allowance.	2010

## Professional Memberships

PEC

## Research Projects

### National Projects

<b>Smart Wheelchair Cushion</b> <b>Funding Agency:</b> IGNITE <b>Amount:</b> PKR 50,000.00 <b>Status:</b> Completed	2020
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### International Projects

### Microstructural effects on strain rate and dwell sensitivity in dual-phase titanium alloys

2019

*Fionn P.E. Dunne Daniel S. Balint Sana Waheed Zebang Zheng*

*Acta Materialia* , Volume: 162 Pages: 136-148 DOI: 10.1016/j.actamat.2018.09.035

**Impact Factor:** 7.656 | **Quartile:** 1 | **Citations:** 70

**DOI:** 10.1016/j.actamat.2018.09.035

### Slip transfer across phase boundaries in dual phase titanium alloys and the effect on strain rate sensitivity

2018

*Zebang Zheng Sana Waheed Daniel S. Balint Fionn P.E. Dunne*

*International Journal of Plasticity*, NULL

**Impact Factor:** 5.800 | **Quartile:** 1 | **Citations:** 120

**DOI:** 10.1016/j.ijplas.2018.01.011

### Temperature-dependent plastic hysteresis in highly confined polycrystalline Nb films

2018

*Sana Waheed R Hao Z Zheng J M Wheeler J Michler D S Balint F Giuliani*

*Modelling And Simulation In Materials Science And Engineering*, NULL

**Impact Factor:** 1.826 | **Quartile:** 3 | **Citations:** 1

**DOI:** 10.1088/1361-651X/aa9ba2

### The viscoelastic response of electrospun poly(vinyl alcohol) mats

2018

*Sana Waheed Annabel L. Butcher Michelle L. Oyen*

*Journal of the Mechanical Behavior of Biomedical Materials*, JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS Volume: 77

Pages: 383-388, January 2018

**Impact Factor:** 3.485 | **Quartile:** 1 | **Citations:** 7

**DOI:** 10.1016/j.jmbbm.2017.09.029

### A unifying scaling for the Bauschinger effect in highly confined thin films: a discrete dislocation plasticity study

2017

*Sana Waheed R. Hao A. Bhowmik D.S. Balint F. Giuliani*

*MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING*, Volume: 25 Issue: 5 Article Number: 054003, JULY 2017

**Impact Factor:** 1.793 | **Quartile:** 2 | **Citations:** 8

**DOI:** 10.1088/1361-651X/aa733e

### Discrete Dislocation Plasticity Modelling of Hydrides in Zirconium under Thermal Cycling

2017

*Sana Waheed Mitesh Patel Mark R.Wenman Adrian P. Sutton Daniel S. Balint*

*MRS ADVANCES* , Volume: 2 Issue: 55 Pages: 3353-3358

**Impact Factor:** 0 | **Citations:** 8

**DOI:** 10.1557/adv.2017.452