



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Fisica Aldo Pontremoli**

Scientist- in - charge: **Prof. Alessio Zaccone**

Dr. Anshul Deep Singh Parmar

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Parmar
Name	Anshul Deep Singh

PRESENT OCCUPATION

Appointment	Structure
Research Associate	Understanding the interplay of structure into dynamics (Münster, Germany)



EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	—	—	—
Specialization	Statistical and computational Physics		
PhD	Statistical and computational Physics	Tata Institute of Fundamental Research, India	2018
Master	Physics	Maharshi Dayanand Saraswati University, India	2011
Degree of medical specialization	—	—	—
Degree of European specialization	—	—	—
Other	—	—	—

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
April 2023	Research Associate, Forschungszentrum Juelich GmbH	Münster

FOREIGN LANGUAGES

Languages	level of knowledge
English	Proficient

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2011	Secured 148th all India rank in NET conducted by CSIR and UGC, India.
2011	Secured 49th all India rank in GATE conducted jointly by IISc and IIT India
2011	Secured 41th all India position in JEST conducted by DAE, India.



TRAINING OR RESEARCH ACTIVITY

description of activity -I am keenly interested in complex disordered systems' dynamics, thermodynamics, and rheology via computer simulation. The breakdown of the stokes einstein relation and its implementation in thermodynamics, hyperuniform structures, characterization of the yield, and the shear band has been my research area in the early part of my career.

Later, I designed various models and algorithms to achieve ultrastable glasses. Emphasized that microalloying/impurity can be a pathway to make metallic glasses swappable and applicable to understanding the stability and yield of the glass.

Recently, I have been exploring "the ideal glass through a sub-system approach." We propose that the ultrastable glass be Arrhenius in nature, supported by the complete energy landscape and the thermodynamics of the supercooled system.

PROJECT ACTIVITY

Year	Project
2023	Structural study of the driven system
2021	Physics of low-temperature disorder system
2018	Cracking the glass problem - Designing swaddle metallic glass formers.
2018	Yield behaviour in cyclically sheared amorphous solids

PATENTS

Patent
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CONGRESSES AND SEMINARS

Date	Title	Place
May 2023	Fate of glass	EPFL, Lausanne
April 2023	Fragile to strong crossover as general glassy feature	DPG conference, Dresden
March 2023	Bottom of the energy landscape	WWU, Münster



PUBLICATIONS

Books
Anshul D. S. Parmar, and Srikanth Sastry. "Mechanical Behaviour of Glasses and Amorphous Materials", Advances in the Chemistry and Physics of Materials (SAMat) 2019.
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Articles in reviews (selected)
P Leishangthem A. D. S. Parmar and S. Sastry. "The yielding transition in amorphous solids under oscillatory shear deformation." Nature Communications 14653 (8) 2017 (Equal Contribution).
A. D. S. Parmar, S. Kumar, and Srikanth Sastry. "Strain localisation above the yielding point in cyclically deformed glasses." Physical Review X, 9 (2) 2019.
A. D. S. Parmar, Misaki Ozawa, and Ludovic Berthier. "Ultrastable metallic glasses in silico." Phys. Rev. Lett. 125 (8), 085505, 2020.
A. D. S. Parmar, and Andreas Heuer. "Depleting states dictate the ideal glass and physics of glass transition." arXiv:2307.10143, 2023.

Congress proceedings
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OTHER INFORMATION

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Münster, 18.09.2023