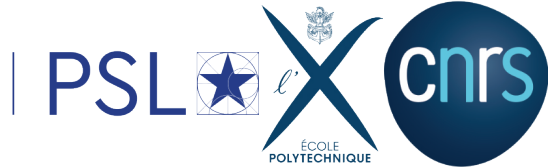


HARSHA S. BHAT

Director of Research at CNRS
Teaching Prof. Ecole Polytechnique
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EDUCATION

École Normale Supérieure, France
Harvard University, USA
Harvard University, USA
NITK, India

H. D. R. [†]	Supershear Earthquakes	2021/01
Ph. D.*	Mechanical Sciences	2007/06
M. S.	Engineering Sciences	2002/06
B. E.	Civil Engineering	2001/06

[†] Habilitation à Diriger des Recherches * Supervised by Prof. J. R. Rice & Dr. R. Dmowska

CURRENT POSITION

École Normale Supérieure, France
École Polytechnique, France

2024/10 ► Present	CNRS Director of Research
2022/09 ► Present	Teaching Professor (PCC)

PAST POSITIONS

École Normale Supérieure, France
NISER, India
Institut de Physique du Globe de Paris, France
University of Southern California, USA
University of Southern California, USA
California Institute of Technology, USA
Harvard University, USA
Harvard University, USA

2016/05 ► 2024/09	CNRS Research Scientist
2021/11 ► 2023/11	Visiting Professor
2012/01 ► 2016/05	CNRS Research Scientist
2010/03 ► 2011/12	Asst. Professor (Research)
2007/11 ► 2010/03	Post Doctoral Fellow
2007/11 ► 2010/03	Visitor in Aeronautics
2007/05 ► 2007/10	Post Doctoral Fellow
2001/11 ► 2007/05	Grad. Research Associate

FUNDING & GRANTS

- 2021–2025 ► 2M€ ERC Consolidator Grant, PERSISMO (Grant No. 865411)
- 2018–2018 ► 25k€ ENS Actions Incitatives
- 2017–2017 ► 6k€ TelluS INSU - action ALEAS
- 2023–2027 ► 100k€ ANR SMEC
- 2023–2026 ► 100k€ ANR Univ. Tokyo SESAME
- 2023–2025 ► 66k€ SPARC Grant India

HONORS AND AWARDS

- 2018 CNRS Award for Doctoral Supervision and Research
- 2018 Grand Prix Michel Gouilloud Schlumberger, French Academy of Sciences
- 2006 Harvard University Certificate of Distinction in Teaching
- 2004 Harvard University Certificate of Distinction in Teaching
- 2003 Harvard University Certificate of Distinction in Teaching

TEACHING PORTFOLIO

Mécanique du Milieu continu · Mécanique des Solides · Mécanique de la Rupture · Mécanique des matériaux et des structures · Mécanique des Milieux Continus · Active Faults: Geometry · Seismic Ruptures and Scaling Laws · Introduction to Rock Physics · Mathematical Methods in the Sciences · Environmental Risks and Disasters · Ordinary and Partial Differential Equations · Complex and Fourier Analysis · Computational Solid and Structural Mechanics · Solid Mechanics · Introduction to the Mechanics of Solids · Mechanics of Fracture · Advanced Geomechanics · Mécanique de la Fracturation

Classes taught with various colleagues at Harvard, Caltech, IPGP, ENS and École Polytechnique

STUDENTS

Postdoctoral Associates (9): Ankit Gupta, Suli Yao, Navid Kheirdast, Michelle Almakari, Carlos D. Villafuerte, Ekeabino Momoh, Lucile Bruhat, Lisa Gordeliy, Marion Y. Thomas

PhD Students (16): Bharath Shanmugasundaram, Yishuo Zhou, Thomas Melkior, Caiyuan Fan, Jinhui Cheng, Augustin Thomas, Joseph Flores Cuba, Claudia Hulbert, Samson Marty, Marshall A. Martinez, Kurauma Okubo, Pierre Romanet, Vahe Gabuchian, François X. Passelègue, Jonathan Mihaly, Michael Mello

Undergraduate and Masters Interns (11): Valentin Marnat, Roxane Ferry, Phillipe Danre, Hugo Lestrelin, Nicolas Mercury, Luc Illien, Eleni Kolokytha, Victor Barolle, Thibaut Perol, Marion Olives, Sonia Fliss.

ORGANIZATION OF SCIENTIFIC MEETINGS

- Jan 2026: Earthquake Source: Mechanics, Seismology and Geology Workshop: NISER, India 2026
- Apr 2024: Across the time scales, from earthquakes to earthquake cycle: EGU 2024
- Apr 2023: Across the time scales, from earthquakes to earthquake cycle: EGU 2023
- Jun 2019: Coupled Processes In Fracture Propagation In Geo-Materials: From Hydraulic Fractures To Earthquakes: CISM Advanced School, Udine, Italy
- Apr 2015: Seismological Society of America, Multiscale Modeling and Characterization of Fragmentation and Damage Patterns in Fault Zones
- Dec 2014: American Geophysical Union, Fault Zone Properties And Processes During Dynamic Ruptures

INSTITUTIONAL RESPONSIBILITIES

- 2018–2024: Team Leader of Faults & Earthquakes Group, ENS
- 2018–2019: Co-organizer of the Internal Seminar, ENS
- 2025: Member HCERES committee for ISTerre, Univ. Grenoble

REVIEWING ACTIVITIES

American Geophysical Union Seismological Society of America International Journal of Fracture
Geological Society of America Science Nature Journal of the Mechanics and Physics of Solids
European Journal of Mechanics - A/Solids Earth and Planetary Science Letters Geophysical Research
Letters Journal of Structural Geology Proceedings of the National Academies of Science, USA Geology
Geophysical Journal International Journal of Applied Mechanics National Science Foundation
European Research Council Nature Communications Nature Geoscience Science Advances

BOOKS

Thomas, M. Y., Mitchell, T. M., **Bhat, H. S.**, eds. (2017). “*Fault Zone Dynamic Processes : Evolution of Fault Properties During Seismic Rupture, Geophysical Monograph 227*”. American Geophysical Union (AGU). DOI: 10.1002/9781119156895.

Bizzarri, A., **Bhat, H. S.**, eds. (2012). “*The mechanics of faulting: From laboratory to earthquakes*”. Research Signpost.

PUBLICATIONS

Google Scholar ID: ZHskR34AAAAJ ORCID: 0000-0003-0361-1854

All publications, including preprints and supplementary materials, are available at <https://harshasbhat.github.io>

Over 50 publications in peer-reviewed journals including Nature, Science, Nature Communications, Proceedings of the National Academy of Sciences (PNAS), Proceedings of the Royal Society A, Journal of Geophysical Research, Geophysical Research Letters, Geophysical Journal International, Journal of Computational Particle Mechanics, Earth and Planetary Science Letters, and others.

h-index of 32 with over 3500 citations.