



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 5976

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**

Scientist- in - charge: **Prof. Dr. Stefano Zapperi**

Hannes Holey

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Holey
Name	Hannes

PRESENT OCCUPATION

Appointment	Structure
University of Freiburg	Postdoctoral researcher
Fraunhofer Institute for Mechanics of Materials IWM	Postdoctoral researcher (guest)

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Materials Science and Engineering (B.Sc.)	Karlsruhe Institute of Technology	2016
Specialization			
PhD	Mechanical Engineering	Karlsruhe Institute of Technology	2023
Master	Materials Science and Engineering (M.Sc.)	Karlsruhe Institute of Technology	2019
Degree of medical specialization			
Degree of European specialization			
Other			



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of	Association	City

FOREIGN LANGUAGES

Languages	level of knowledge
German	Native
English	Fluent
French	Basics

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2017	Erasmus scholarship

TRAINING OR RESEARCH ACTIVITY

description of activity
2019-2023: Member of the Research Training Group: Tailored scale-bridging methods for computational nanoscience (from 2020-2021: member of the PhD committee)
Participation in Winter School: “Nanotribology: theory and applications” (Technical University of Denmark, online)
Participaition in PhD course: “Numerical Approaches to Solid and Applied Mechanics: Boundary Element Methods (BEM)” (Politecnico di Bari, Italy, online)

PROJECT ACTIVITY

Year	Project
2023	Efficient cooling, lubrication and transportation - coupled mechanical and fluid-dynamical simulation methods for efficient production processes, FLUSIMPRO (DFG SPP 2231)
2019-2023	Tailored scale-bridging approaches to computational nanoscience, COMPNANO (DFG GRK 2450)

PATENTS

Patent
None

CONGRESSES AND SEMINARS

Date	Title	Place
14.03.2022	APS March Meeting	Chicago, IL, USA
06.06.2022	ECCOMAS Congress	Oslo, Norway



11.07.2022	World Tribology Congress	Lyon, France
03.10.2022	Multiscale Materials Modeling	Baltimore, MD, USA
30.01.2023	Seminar of the Warwick Centre for Predictive Modelling	Coventry, UK
26.09.2023	International Tribology Conference	Fukuoka, Japan

PUBLICATIONS

Books
Holey, H., “Entwicklung einer Multiskalenmethode für die Simulation von Schmierprozessen”, PhD thesis (Karlsruhe Institute of Technology, KIT Scientific Publishing, 2023).

Articles in reviews
Hemmesi, K., Holey, H. , Elmoghazy, A., Böhm, R., Farajian, M., Schulze V., “Modelling and experimental validation of material deformation at different zones of welded structural-steel under multiaxial loading”, Materials Science and Engineering A 824, 140826 (2021)
Holey, H. , Codrignani, A., Gumbsch, P., and Pastewka, L., “Height-Averaged Navier-Stokes Solver for Hydrodynamic Lubrication”, Tribology Letters 70, 36 (2022).
Holey, H. , Gumbsch, P., and Pastewka, L., “Confinement-induced diffusive sound transport in nanoscale fluidic channels”, Physical Review Letters, 131, 084001 (2023).
Codrignani, A., Peeters, S., Holey, H. , Stief, F., Savio, D., Pastewka, L., Moras, G., Falk, K., and Moseler, M., “Towards a continuum description of hydrocarbon lubrication in highly pressurized nanometer wide constrictions: the importance of accurate slip laws”, Science Advances (accepted).

Congress proceedings
None

OTHER INFORMATION

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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: Freiburg (Germany), 04.11.2023