

CV - Christian F. Niordson

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Personal data:

Name Christian F. Niordson
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Date of birth April 3, 1975

Education:

1994 High school, Holte Gymnasium
1999 M.Sc.Eng., Solid Mechanics, Technical University of Denmark
2003 Ph.D., Solid Mechanics, Department of Mechanical Engineering, Technical University of Denmark

Employment:

2002-2005 Assistant professor, Dept. Mech. Eng., Technical University of Denmark
2005-2016 Associate professor, Dept. Mech. Eng., Technical University of Denmark
2014- Head of Section for Solid Mechanics, Dept. Mech. Eng., Technical University of Denmark
2016- Professor, Dept. Mech. Eng., Technical University of Denmark

Memberships, committees and boards:

2010 - Danish National Committee of International Union of Theoretical and Applied Mechanics (IUTAM).
2011 - 14 Chairman of DCAMM - 'Danish Center for Applied Mathematics and Mechanics'.
2011 - Board of Editors for 'International Journal of Solids and Structures'.
2012 - General Assembly of IUTAM (International Union of Theoretical and Applied Mechanics).
2012 - 14 Research Board of Department of Mechanical Engineering, DTU.
2013 - Scientific Committee of COMPLAS - Symposium on Computational Plasticity.
2014 - 16 International Evaluation Committee of "EPFL Fellows".
2014 - The Danish Academy of Technical Sciences.
2016 - European Solid Mechanics Conference Committee (ESMCC). Co-chairman from 2018.
2016 - Associate Editor for Journal of the Mechanics and Physics of Solids.
2017 - Member of the Council of the International Conference on Fracture (ICF).
2019 - Member of the Equinor Prize award committee.
2020 Selected as sectional lecturer for ICTAM 2020 in Milano.
• Chairman and member of Ph.D. evaluation committees at KTH (Stockholm, Sweden), Columbia University, TU Eindhoven, Université Libre de Bruxelles, Norwegian University of Science and Technology, Ecole des mines de Paris, Hamburg University of Technology, Aarhus University and Aalborg University.
• Invited seminars at Ecole des mines de Paris, University of Cambridge, TU Eindhoven, Brescia University, Columbia University, Saclay Nuclear Research Centre (CEA) and KTH.

Grants, Honours and Awards:

2003 P. Gorm-Petersen's Memorial Prize for best Ph.D. thesis.
2003-2006 CI: 'Modeling Plasticity at the Micron Scale' - Danish Technical Research Council.
2008-2011 PI: 'Plasticity Across the Scales' - Danish Council for Independent Research.
2011-2016 Sapere Aude Research Leader: 'Higher Order Theories in Solid Mechanics, Danish Council for Independent Research.
2014 STATOIL-prize.
2015-2018 CI: 'New Advances in Steady-State Engineering Techniques' - Danish Council for Independent Research.
2016-2019 PI: 'Modelling Injector Related Hydraulic Fracturing' - Danish Hydrocarbon Research and Technology Centre.
2017-2020 WP leader - Fracture Modelling: 'White Etching Crack bearing failures in wind turbines' - Innovation Fund Denmark.
2017-2020 PI: 'Advanced Damage Models with Intrinsic Size Effects' - Danish Council for Independent Research.
2018-2021 CI: 'AM-Line' - Innovation Fund Denmark.
2019-2022 PI: 'Reliable in-service assessment in aggressive environments' - Danish Hydrocarbon Research and Technology Centre.

Extended research visits at other universities:

2001 5 months at Harvard University in collaboration with Professor John W. Hutchinson
2010 5 months at Columbia University in collaboration with Professor Jeffrey W. Kysar
2012 6 weeks at Columbia University in collaboration with Professor Jeffrey W. Kysar