

Professor Ritske Sipke Huismans

Researcher unique identifier:

Research ID: C-3938-2013

Google scholar: <https://scholar.google.com/citations?user=ckX9nysAAAAJ&hl=en>

Nationality: Dutch

Date of birth: 20.04.1961

URL for web site: <http://folk.uib.no/huismans/>

EDUCATION

1984 PhD in Earth Sciences, Vrije Universiteit, Amsterdam, the Netherlands

1981 MSc in Earth Sciences, Vrije Universiteit, Amsterdam, the Netherlands

CURRENT POSITION

2006– present Full Professor in Tectonics, Univ. of Bergen, Norway

PREVIOUS POSITIONS

2004 – 2011 Adjunct professor, Geodynamics group, Dalhousie University, Canada

2003 – 2004 Research Associate, Geodynamics group, Dalhousie University, Canada

1999 – 2003 Post doctoral fellow, Geodynamics group, Dalhousie University, Canada

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- Main advisor to 12 post doctoral fellows, 5 students for PhD degrees, 10 students for MSc degree and. In addition 2 students currently in PhD programme.

COLLABORATIVE RESEARCH PROJECTS LED BY APPLICANT

2015 – 2021, Total (55m NOK), PI, COLORS, coupling lithosphere deformation, surface processes and stratigraphy, 8 post docs

2014 – 2018, NFR (15m NOK), PI Barents Sea basin configurations (Petromaks 2), 2 post docs, 1 PhD

2012 – 2016, NFR (24m NOK), Co-PI, MultiRift, 5 postdocs, 3 PhD

2009 – 2016, Statoil (45m NOK), PI, Earth System Modelling 9 Post docs and one full professor

2009 – 2012, NFR (14m NOK), Co-PI, Geothermal energy production, 2 PhD and 2 post docs

2009 – 2011, StatoilHydro (2.4m NOK), Co-PI, Fracture networks, 1 post doc

2009 – 2013, ESF (14m NOK), PI, ESF TopoEurope project PYRTEC, 4 PhD and 2 post doc

2008 – 2011, NFR (20m NOK), Co-PI, Integrated study of the Barents Sea, 4 PhD and post doc

2008 – 2011, NFR (7m NOK), PI, 3D modeling of passive margin formation, 1 PhD and 1 post doc

2006 – 2008, EU (80 kEuro), PI, EU International Reintegration Grant

INSTITUTIONAL RESPONSIBILITIES

- 2015 - Deputy head of department, Geosciences, University of Bergen, Norway
- 2010 - Head of Geodynamics Research Group, University of Bergen, Norway

COMMISSIONS OF TRUST

- 2010, Member of Steering Committee for the ESF TopoEurope Programme
- 2013, Member of the expert panel evaluation Oulu University, Finland
- 2011, Member of the Earth Science Panel for Research Grants, Finland.
- 2010, Member of the Earth Science Panel for Research Grants, Finland.
- Regular reviewer for proposals from national funding agencies in USA, UK, France, Finland, ESF, EU, ERC
- Regular reviewer for Nature, Science and leading specialist journals

ONGOING AND PAST MAJOR COLLABORATIONS

- Prof. C. Beaumont (Dalhousie University): Geodynamics of passive margins and subduction.
- Prof. J. Braun (Rennes University): Modelling tectonics and landscape evolution.
- Prof. Peter van der Beek (Université Grenoble), Surface processes and tectonics.
- Prof. Jan Inge Faleide (University of Oslo), Passive margins studies.
- Dr Magdalena Scheck Wenderoth (Geoforschungs Zentrum Potsdam), Norwegian margin.
- Prof. Roy Gabrielsen (University of Oslo), Inversion tectonics and sedimentation.
- Prof. Josep Anton Munoz (Universidad de Barcelona), Pyrenean Geology
- Dr Ronald van Balen (Free University Amsterdam), geomorphology, tectonics, and climate.
- Prof. Hugh Sinclair (University of Edinburgh), Pyrenean foreland basin evolution.
- Prof. Yuri Podladchikov (University of Oslo), Geodynamics, two phase flow
- Dr S. Goes (ETH Zurich): Seismic tomography, subduction zone dynamics.
- Dr Nina Simon (University of Oslo), Geothermal energy, phase changes in the mantle.

Ten year track-record

Publications

Total of 41 peer reviewed publications. Citations (Google scholar):1329 (since 2010: 908) - H-Index: 21

A full publication list with citations can be found at:

https://scholar.google.com/citations?hl=en&user=ckX9nysAAAAJ&view_op=list_works&sortby=pupdate

10 Selected recent publications:

Main supervisor / senior author for PhD student or post doctoral fellow publication marked with *

*Pedersen, V.,K., **Huismans, R.S.**, Moucha, R., 2016: Isostatic and dynamic support of high topography on a North Atlantic passive margin, **Earth Planet. Sci. Lett.**, 446, 1-9.

*Erdős, Z., **Huismans, R.S.**, van der Beek, P., Thieulot, C.*, 2014: Extensional inheritance and surface processes as controlling factors of mountain belt structure, **J. Geophysical Research** 119, 9042-9061.

Thieulot, C., Steer, P., and **Huismans, R.S.**, 2014: Three-dimensional numerical simulations of crustal systems undergoing orogeny and subjected to surface processes, **Geochemistry, Geophysics, Geosystems**, 15), 4936-4957.

Huismans, R.S. Beaumont, 2014: Contrasting Characteristics of Rifted Continental Margins Explained by Depth-Dependent Lithospheric Extension: Effects of Detachment and Strong and Weak Lower Crust, **Earth Planet. Sci. Lett.**, 407, 148-162.

*Pedersen, V.,K., **Huismans, R.S.**, Herman, F., Egholm, D.L., 2014: Controls of initial topography on temporal and spatial patterns of glacial erosion, 223, **Geomorphology**.

*Jammes, S. **Huismans, R.S.**, Munoz, J.A., 2013: Lateral variation in structural style of mountain building: controls of rheological and rift inheritance, **Terra Nova**, 26, 201-207.

*Fillon, C., **Huismans, R.S.**, and van der Beek, P., 2013: Wedge-top sedimentation effects on the growth of fold-and-thrust belts, **Geology**, 41, 83-86.

*Steer, P., **Huismans, R.S.**, Valla, P.G., Gac, S., and Herman, F., 2012: Bimodal Plio–Quaternary glacial erosion of fjords and low-relief surfaces in Scandinavia, **Nature Geoscience**, DOI: 10.1038/NGEO1549.

*Allken, V., R. S. **Huismans**, and C. Thieulot, 2011: Three-dimensional numerical modeling of upper crustal extensional systems, **J. Geophys. Res.**, 116, B10409, doi:10.1029/2011JB008319|

Huismans, R.S. Beaumont, 2011: Depth-dependent extension, two-stage breakup and cratonic underplating at rifted margins, **Nature**, 473, 2011. doi:10.1038/nature09988.

Invited presentations to peer-reviewed, internationally established conferences and/or international advanced schools (Selection from more than 60 keynotes and invited presentations)

2015 William Smith Meeting, Geological Society of London, UK
2015 Keynote lecture: British Geophysical Association – New Advances in Geophysics, London
2014 Keynote lecture: GeoFrankfurt 2014 conference “Earth System Dynamics“, Frankfurt
2014 Keynote presentation, Geomod, Berlin
2013 Keynote lecture: Geoprisms workshop, American Geoscience Union meeting, San Francisco
2013 Invited lecture: Lithosphere Asthenosphere Boundary conference, College de France, Paris
2013 Invited lecture: EPOS / TopoEurope meeting Erice, Sicily
2013 Keynote presentation, TopoAfrica meeting, Saasfeld, South Africa
2012 Invited presentation, American Geoscience Union Fall meeting, San Francisco
2012 Keynote presentation, International Geological Congress, Oslo
2011 Invited presentation, American Geoscience Union Fall meeting, San Francisco
2011 Keynote presentation, EarthScope-GeoPRISMS Science Workshop, Lehigh University
2010 Keynote presentation, Geomod, Lisbon
2010 Keynote presentation, AAPG, Calgary
2008 Keynote presentation, AAPG, Cape Town
2008 Keynote presentation, Geological Society Meeting, Rift Renaissance, Houston
2008 Keynote presentation, Ocean Drilling Consortium workshop, Houston
2007 Keynote presentation, Penrose conference on Extending Continental Lithosphere
2007 Keynote presentation, Academie Français meeting, Paris
2006 Keynote presentation US-Margins “Rifting Continental Lithosphere” meeting, Mexico
2004 Keynote presentation, ”Margins/Intermargins workshop Modeling Extensional deformation of the Lithosphere”, Pontresina, Switzerland

Organisation of international conferences

- Convenor EGU (special session) (Vienna, 2014)
- Convenor EGU (special session) (Vienna, 2013)
- Convenor IGC (special session) (Oslo, 2012)
- Scientific committee, Young Structural Geologist conference, Oviedo, Spain (2008)

Major contributions to the early careers of excellent researchers

Several of my former PhD students and post docs have continued into academic research careers, as University Professors (P. Steer, C. Thieulot, S. Jammes).