

Monem AYAZ

PERSONAL DATA

PLACE AND DATE OF BIRTH: Norway | 4 December 1986
CURRENT CITY: Oslo, Norway
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EDUCATION

- OCT 2015-DEC 2019 PhD Candidate, **University of Strasbourg / University of Oslo**
Thesis: "Experimental and numerical investigation of cluster morphologies and dynamics during biphasic flow in porous media"
Advisors: Renaud TOUSSAINT and Knut Jørgen MÅLØY

Studied two-phase flow in porous media experimentally and numerically. Focused on burst-dynamics and the network formation during secondary migration.
- AUG 2012-SEP 2014 Master of Science in PHYSICS, **University of Oslo**
Thesis: "Two phase granular transport in cylindrical confinement"

The degree consisted of courses in statistical mechanics, quantum-mechanics, continuum mechanics and a specially designed course in fractals and percolation processes.
Advisor: Knut Jørgen MÅLØY
- AUG 2008-JUN 2012 Bachelor of Science in PHYSICS, **University of Oslo**
Coursework specialization with focus on computational physics, mathematical modelling and condense matter physics.

PUBLICATIONS

- G.Dumazer, B.Sandnes, M.Ayaz, K.J Måløy, E.G Flekkøy: *Frictional fluid dynamics and plug formation in multiphase millifluidic flow*. *Phys. Rev. Lett.* June 2016.
- G.Dumazer, B.Sandnes, M.Ayaz, K.J Måløy, E.G Flekkøy: *Self structuring of granular material under capillary bulldozing*, *Powder and Grains* 2017.

PARTICIPATION TO INTERNATIONAL MEETINGS WITH ABSTRACT

- M.Ayaz, G.Dumazer, B.Sandnes, K.J Måløy, E.G.Flekkøy, *Two phase granular transport in cylindrical confinement*, ITN flowtrans confarence, Strasbourg, France, November 2015.
- M.Ayaz, G.Dumazer, B.Sandnes, K.J Måløy, E.G.Flekkøy, *Two phase granular transport in cylindrical confinement*, EGU, Vienna, April 2016.
- M.Ayaz, R.Toussaint, K.J Måløy, G.Schäfer, *Experimental investigation of the displacement dynamics during biphasic flow in porous media*, EGU, Vienna, April 2016.
- M.Ayaz, R.Toussaint, K.J Måløy, G.Schäfer, *Experimental investigation of the displacement dynamics during biphasic flow in porous media*, CMG, Paris, June 2016.

- M.Ayaz, G.Dumazer, B.Sandnes, K.J Måløy, E.G Flekkøy, *Frictional fluid dynamics and plug formation in multiphase millifluidic flow*, International Workshop on Jamming and Granular matter, London, England, July 2016.
- M.Ayaz, R.Toussaint, K.J Måløy, G.Schäfer, *Interface fluctuations during rapid drainage*, EGU, Vienna, April 2017.

WORK EXPERIENCE

Sep 2014-Jun 2015	Teacher at FYRSTIKKALLEEN VGS Taught mathematics and physics at high school level.
MAR 2015-JUN 2015	Teaching assistant at OSLO AND AKERSHUS UNIVERSITY COLLEGE Assisted in teaching the introductory physics course ELPE1100
AUG 2009-FEB 2010	Security guard for SECURITAS Worked full time at coca-cola Lørenskog
FALL 2009	Mathematics Teacher at SANDAKER VGS Taught mathematics at high school level.
DEC 2008-JUL 2009	Consultant at THE UNIVERSITY OF OSLO Held talks at high schools promoting academic education in science
2006-2007	Cashier KIWI HELSFYR Worked as a chasier at a grocery store
SEP 2005- JUN 2006	Soldier in the NORWEGIAN ARMY Served the army during my compulsory military training

LANGUAGES

ENGLISH:	Fluent
NORWEGIAN:	Mothertongue
URDU:	Fluent
FRENCH:	Basic Knowledge
PYHTON:	Experienced
MATLAB:	Experienced
C++:	Intermediate

INTERESTS AND ACTIVITIES

Applied Mathematics and Physics, Imageprocessing, Research, Data analysis
Gym, Music, Soccer, photography