

# Mehrdad Ahkami

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**Date of Birth** 13/08/1988



## EDUCATION

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Nov 2016 – Present

**PhD in Visualization of reactive flow in fractured porous media**  
**Department of Earth Sciences, ETH Zurich, Switzerland**

- Commissioning of a PIV lab for state of the art studies of reactive flow in fractured porous media.

Aug 2013 – Aug 2015

**M.Sc. in Petroleum Engineering**  
**Technical University of Denmark (Lyngby / Denmark)**

- Average grade 8.9 in Danish 7 step scales grading. (A in US system).
- Promoted knowledge in structure and flow properties of porous media.

Oct 2006 – Mar 2011

(Bachelor program is four years)

**B.Sc. in Petroleum Engineering**  
**Amirkabir University of Technology (Tehran / Iran)**

- Became among top 1 percent of students in national university entrance exam in Iran.
- Shaped academic knowledge in porous media in the best technical universities of Iran. With average grade 15.26 out of 20.

## EXPERIENCE

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Apr 2016 – Nov 2016

**Catalyst Engineer, Haldor Topsoe A/S, (Copenhagen \ Denmark)**

- Technical design and field work application of hydrotreating and hydrocracking process in refineries.
- Working as a traveling engineer
- Collaborated with sales department for marketing purposes.

Jan 2014 – Dec 2015

**Research assistant, Department of Chemical and Biochemical Engineering of DTU (Lyngby \ Denmark)**

- Conducted smart water flooding experiments on chalk and sandstones.
- Treated a huge amount of experimental data consisted of pressure, oil recovery, water compositional analysis and the like.
- Worked in goal oriented projects within an international research group.

- Aug 2011–Nov 2012      **Drilling Completion Engineer, Iranian Offshore Oil Company (IOOC)**
- Aug – Sep 2010      **Internship to Drilling Operation, Iranian Offshore Oil Company**
- Worked on high pressured offshore drilling rigs.
  - Collaborated with international companies such as Schlumberger.
  - Applied the theoretical aspects of petroleum engineering into practice.

## PUBLICATIONS

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- K. Katika, **M. Ahkami**, I.D Fabricius, P.L Fosbøl, A.Y Halim, A. Shapiro, K. Thomsen, I. Xiarchos, “Comparative analysis of experimental methods for quantification of small amounts of oil in water”, *Journal of Petroleum Science and Engineering*      Published
- M. Ahkami**, K.H. Chakravarty, I. Xiarchos, K. Thomsen, P.L. Fosbøl, “Determining optimum aging time using novel core flooding equipment”, SPE Bergen One-Day Seminar, April 20, 2016, Bergen, Norway      Paper number: SPE-180054-MS
- Chakravarty, K. H., **Ahkami, M.**, Xiarchos, I., Stenby E. H., Fosbøl, P. L., & Thomsen, K. (2016) Effect of pause in brine injection during Smart Water-Enhanced Oil Recovery (SmW-EOR) for low temperature chalks: A case study from North Sea. *Journal of Petroleum Science and Engineering*      To be submitted
- Chakravarty, K. H., **Ahkami, M.**, Xiarchos, I., Stenby E. H., Fosbøl, P. L., & Thomsen, K. (2016) Smart Water-Enhanced Oil Recovery (SmW-EOR) in low temperature Sandstone reservoirs: A case study from North Sea. *Journal of Petroleum Science and Engineering*      To be submitted