

Doctor Fredrik Normann - Curriculum Vitae

General information

Name: Carl Fredrik Normann

Born: November 17, 1982

Citizenship: Swedish

Family: Married since 2006,
two children (born 2008 and 2010)

Current position: Assistant Professor

Contact information

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Address (work)

Fredrik Normann
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Chalmers University of Technology
SE-412 96 Gothenburg, Sweden

Address (home)

Fredrik Normann
Vattenhjulsvägen 4
SE-438 35 Landvetter
Sweden

Academic Degrees

2005: *Master of Science* (civilingenjör)

Lund University of Technology

Subject: Chemical Engineering with focus on Energy Technology and Process Simulations

2010: *Doctor of Philosophy* (teknologie doktor)

Chalmers University of Technology

Subject: Energy and Environment with focus on Energy Technology

Title: Oxy-Fuel Combustion – The Control of Nitrogen Oxides

Supervisor: Professor Filip Johnsson

Employment

2011: *Assistant Professor* (forskarassistent) at the Department of Energy and Environment at Chalmers University of Technology. The position includes 80% research and 20% teaching.

Research Areas

- Efficient combustion processes including conventional and novel concepts for combustion.
- Emission control of combustion generated pollutants like nitrogen and sulfur oxides (NO_x and SO_x) including primary (during combustion) and secondary (after combustion) measures.
- Carbon capture and storage technologies with focus on CO₂ capture through so-called “oxy-fuel combustion” and “post-combustion capture” (CO₂ absorption).
- Process integration of novel process concepts in power or industrial plants.
- Development of modeling tools for detailed-kinetic modeling, absorption processes as well as process simulations.

Teaching

- Thermodynamics and Energy Technology – Bachelor level course for mechanical engineers. Head responsible for the course and main lecturer.