

# Curriculum Vitae



## Personal information

Surname / First name

**Jakobsen Poplsteinova Jana**

Address

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Date of birth

January 8, 1974

Gender

Female

## Work experience

2017-

**Professor**

Norwegian University of Science and Technology, Dept. of Chemical Engineering

2013-2016

**Adjunct Professor**

Norwegian University of Science and Technology, Dept. of Chemical Engineering

2005-2016

**Senior Research Scientist**

SINTEF Energy Research, Gas Technology Dept.

2004-2005

**Post Doc**

Norwegian University of Science and Technology, Dept. of Chemical Engineering

## Education and training

1999-2004

**Doctor Engineer (PhD)**

Norwegian University of Science and Technology (NTNU), Dept. of Chemical Engineering. Doctor dissertation: Absorption of Carbon Dioxide - Modeling and Experimental Characterization

1998-2001

**High school teacher**

Pedagogics, Psychology, and Didactics at Institute of Chemical Technology in Prague, accomplished by state examination

1994-1999

**Graduated Chemical Engineer (MSc)**

Institute of Chemical Technology in Prague, Faculty of Chemical Engineering, Master Thesis title: "Study on Mass Transfer between Gas and Liquid in Multi-Impeller Vessel"

1992-1994

**Chemical-Technical Assistant (BSc Instrumental Analysis)**

Chemical Institute - Dr.Fläd, Stuttgart, Germany, accomplished by state examination

## Personal skills and competences

### Research and Development

#### Carbon capture, transport, and storage

- Mathematical modelling of multi-phase chemical reactors (Matlab, FORTRAN)
  - Fluid dynamics (CLC)
  - Thermodynamics (VLE for CO<sub>2</sub> rich mixtures)
  - Mass and heat transfer
  - Reaction kinetics
- Process system analysis (HYSYS, AspenPlus, PROII)
- Value chain analysis (in-house code iCCS)
- Techno-economic optimisation (in-house code iCCS)
- Experimental work (VLE for CO<sub>2</sub> rich mixtures, CLC)

### Teaching

- Lecturing (TK P 4175, TKP 10)
- Student supervision (Bachelor, MSc, PhD, postdoc)
- Leading student projects

### Project management

#### Initiation, leadership and project administration

- R&D projects (EU's FP6, FP7, H2020, NFR, Gassnova) and industry projects (Statoil, Alstom, Engi, Gassco, Technip, Shell, Total, Hydro)
  - Identifying opportunities
  - Consortia development
    - Promoting and seeking support
    - Understanding business models and financial mechanisms
  - Project planning and budgeting
  - Project implementation and execution
  - Project follow-up
  - Project closure

### Facilitating creative processes

- Concept development (BIGCCS, ECCO, IMPACTS, CEPONG, CO2Mix)
  - Idea generation
  - Vision formulation
  - Concept formulation
- Scenario development and analysis (ECCO, BIGCCS, CenBIO)
- Development of roadmaps (BIGCCS, GATEWAY)
- Case study design and analysis (BIGCCS, IMPACTS)

### Outreach

- Presenting academic work at conferences and in journals
- Popular scientific communication
- Networking

### Languages

Mother tongue  
Other languages

Czech		
Norwegian	Proficient User	(Trinn 3, NTNU Dragvoll)
English	Proficient User	(Toefel test)
German	Independent User	(Goethe Institute certificate)