

## PERSONAL INFORMATION

**E-mail:** [annsande@chalmers.se](mailto:annsande@chalmers.se)

**Mobile:** +45 2614 7599

**Current:** Ph.D. student at Chalmers university of technology with close collaboration with Chr. Hansen A/S



## EDUCATION

2014-present **Industrial Ph.D. student,**  
Chalmers university of technology, SE-Gothenburg &  
Chr. Hansen A/S, DK-Hørsholm  
Project title: *Characterization of respiratory physiology and development of stress tolerance in Lactococcus lactis for high yield production of robust high performance starter cultures*

2009-2012 **MSc. Eng. in Biotechnology Engineering,**  
Technical University of Denmark, Kgs. Lyngby  
Thesis; *Gradient simulation of Saccharomyces cerevisiae fermentation & the effect on population heterogeneity*  
The aim was to study cell behavior of *Saccharomyces cerevisiae* in response to perturbations. In particular, observing population heterogeneity dynamics during glucose pulses to steady-state chemostat fermentations.  
(supervisor: Jette Thykær & co-supervisor: Anna Eliasson-Lantz)

Exchange student for 6 months in 2010 at University of Zaragoza, Spain.

2005-2009 **BSc. Eng. in Human Life Science Engineering,**  
Technical University of Denmark, Kgs. Lyngby  
Thesis; *Production of probiotic lactic acid bacteria with focus on downstream process*, performed at Chr. Hansen A/S  
The aim of the project was to investigate parts of the down-stream process to maintain maximum cell activity throughout the production process. (supervisors: Jette Thykær and Zuzana Mladenovska)

**WORK EXPERIENCE**

- 2012-2013 **Research scientist**, fermentation department,  
Evolva Biotech A/S, Østerbro, Denmark
- Responsible for structuring and planning daily fermentation work including seed train, glycerol stocks, media preparation and fed-batch cultivations
  - Data processing and interpretation. Strain characterization and optimization and development of fed-batch processes
  - Establishing new fermentation lab
- 2011-2012 **Assistance student teacher**, in Fermentation technology,  
Technical University of Denmark, Systems Biology, Kgs. Lyngby
- Teaching the fundamentals in fermentation processes using calculations, discussions and experimental trials
- 2011-2012 **Accreditation panel member (student, university, industry)**  
ACE Denmark, Copenhagen K
- Took part in the accreditation of several higher educations within molecular biology by providing the students point of view of the quality and structure of respective education.
- 2007-2012 **Student counselor**,  
Technical University of Denmark, Administration, Kgs. Lyngby
- Worked as a guidance counselor of present and potential students at the university
  - Handled personal student issues and practical office matters
  - Organized presentations and informative student events

---

Anna Sandersen