

## Personal Data

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## Education

2015	Docent	Chalmers University of Technology in Concrete Structures <i>Promotion lecture: "Bottom-up" perspective for enhancing the sustainability of concrete infrastructure</i>
2012	Postdoc	Massachusetts Institute of Technology (MIT), USA
2010	Ph.D.	Chalmers University of Technology in Structural Engineering <i>Title of thesis: Structural Behavior of Deteriorated Concrete Structures</i> <i>Supervisors: Karin Lundgren, Mario Plos, Kent Gylltoft</i>
2008	Lic. Eng.	Chalmers University of Technology in Structural Engineering
2006	M.Sc.	Chalmers University of Technology in Structural Engineering
2004	B.Sc.	Iran University of Science and Technology in Civil Engineering

## Position

2016-present	Associate Professor, leader of Concrete Structures Research Group Chalmers University of Technology	full-time
2014-2016	Researcher, CBI Swedish Cement and Concrete Research Institute Researcher, Chalmers University of Technology	80% 20%
2012-2013	Researcher, CBI Swedish Cement and Concrete Research Institute Researcher, Chalmers University of Technology	50% 50%
2011-2012	Postdoctoral Associate, Massachusetts Institute of Technology (MIT) Researcher, CBI Swedish Cement and Concrete Research Institute Researcher, Chalmers University of Technology	full-time 20% 20%
2010-2011	Researcher, CBI Swedish Cement and Concrete Research Institute Researcher, Chalmers University of Technology	80% 20%
2006-2010	Ph.D. student, Div. of Structural Eng., Chalmers University of Tech.	full-time
2002-2004	Concrete Laboratory Manager and R&D Manager, Armelat Co.	full-time

## Visiting positions

2011-2012	Material and Mechanics, Massachusetts Institute of Technology, Boston, USA
2009	Department of Structural Engineering, Politecnico di Milano, Italy

## Honors and Awards

2013	<i>fib</i> Achievement Award for Young Engineers 2013 <i>Award by: fédération internationale du béton – fib Swiss National Group</i>	Switzerland
2011	Årets Betongforskare – Concrete Researcher of the Year <i>Award by: Betongforeningen – The Swedish Concrete Association</i>	Sweden
2004	ACI Concrete Paper Award, second place <i>Award by: ACI – American Concrete Institute</i>	USA
2004	ACI Concrete Project Award, first place <i>Award by: ACI – American Concrete Institute</i>	USA
2001	ACI High Strength Concrete award winner <i>Award by: ACI and Iran University of Science and Technology</i>	USA-Iran
2001-2002	Honorable Distinguished Student <i>Award by: Iran University of Science and Technology</i>	Iran
2000-2001	Honorable Distinguished Student <i>Award by: Iran University of Science and Technology</i>	Iran

## Research Profile

My research concerns with concrete infrastructures across all length scales from material level to structure and network levels. My research is primarily focused on service life assessment of concrete structures subjected to deterioration, especially corrosion of reinforcement and frost. A multi-disciplinary approach combining experiments with advanced simulation at material and structural levels based on non-linear fracture mechanics is pursued to address the multi-scale multi-physics problem of durability and service life in concrete structures.

### Scientific publications

- 20 papers in reviewed international journals
- 40 papers published in reviewed proceedings of international conferences
- 15 other scientific papers, theses, non-reviewed conference proceedings, reports, etc.

### Selected services

2015-present	Member of Commission 3 Existing Concrete Structures Technical Secretary of fib Commission 3.2 Modelling of structural performance of existing concrete structures
2010-present	Reviewer for international journals: Structural Journal (ACI), Material Journal (ACI), Materials and Structures, Construction & Building Materials, Engineering Structures, Journal of Civil and Environmental Engineering, and Cold Regions Science and Technology
2013	Member of local organizing committee International DIANA Users Meeting, Chalmers University of Technology, Gothenburg, Sweden
2012	Chairman at the International Conference of Bond in Concrete, Brescia, Italy Session: General Aspects of Bond / Transfer and Development
2011-2015	Member of <i>fib</i> - SAG 7 Assessment and interventions upon existing structures (AIES) Working Group B: Modelling of structural performance of existing structures
2011-2014	Member of RILEM Technical Committee 219-ACS: Alkali Aggregate Reaction in concrete structures: performance testing and appraisal, TC ACS-M Modeling
2004-present	Member of ACI – American Concrete Institute
2000	Member of organizing committee, International Conference in Hydraulic and Hydrology, Iran University of Science and Technology, Tehran, Iran
1999	Member of local organizing committee First National Festival of the Students of Civil Engineering, Tehran, Iran

### Information dissemination

- Over 40 presentations at international and national conferences/seminars
- Three articles in non-academic magazines – popular science articles
- Invited presentations: TNO DIANA webinar, Delft, The Netherland, 2014; Chalmers Konstruktionscentrum, Gotheburg, Sweden, 2013; *fib* Symposium for *fib* Achievement Award for Young Engineers, 2013; Betongföreningen, Borås, Sweden, 2013; Laboratoire Central des Ponts et Chaussées, Paris, France, 2010; Laboratoire Matériaux et Durabilité des Constructions, Toulouse, France, 2010.
- Communication of research findings beyond scientific communities and engineering firms: Sverige Radio interview; publicity in Göteborgs-Posten (GP) in 2013-09-10.

## Teaching Profile

I teach with great passion and constantly reflect on and assess my teaching practice. I started with teaching already when I was an undergraduate student, and have continued since then in several undergraduate and graduate courses.

### Supervision

2011-present	4 Ph.D. students	Chalmers University of Technology, Structural Engineering
2011-2013	3 Lic. Eng.	Chalmers University of Technology, Structural Engineering
2006-present	9 master theses	7 at Chalmers, one at MIT, and one at CBI

### Courses responsibilities

Course name	Level	Responsibility in each course						
		06	07	08-09	11	12	13-14	15-16
Concrete Structures 7.5 ECTS, 50-60 students, in English	M.Sc.					S/ CL	L*/S /CL	C/L/S/ CL
Structural Systems 7.5 ECTS, 40-60 students, in English	M.Sc.	S	S					
Structural Concrete 7.5 ECTS, 40-60 students, in English	M.Sc.	E						
Bärande Konstruktioner 7.5 ECTS, 120 students, in SE./En.	B.Sc.			E				
Advanced Concrete Engineering 7.5 ECTS, 20 students, in En.	Ph.D.				GL			

C Course director (examiner)

L Lectures (L\* = part of course)

GL Guest lecturer

E Exercise sessions

S Supervision of design assignment

CL Computer laboratory session