

# CURRICULUM VITAE

## Personal information

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**Dr. Bahar AYHAN TEZER**

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Department of Civil Engineering  
Division of Engineering Mechanics  
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## Work experience

Dates  
Name of employer  
Occupation or position held  
Main activities and responsibilities

Dates  
Host Institution  
Position

Dates  
Name of employer  
Occupation or position held

December 2006 - present  
ITU Istanbul Technical University, Dept. of Civil Engineering , Division of Engineering Mechanics  
Research & Teaching Associate  
Assistance in research, also in teaching and grading of the following courses :  
*Statics, Dynamics, Strength of Materials.*

01.02- 01.08.2009 (6 Months) and 01.02.2010-01.08.2011 (18 Months)  
Ecole Normale Supérieure de Cachan (ENS Cachan)  
Researcher as a PhD Student of ENS Cachan

August 2003 – June 2006  
TEKSER Construction Co.  
Civil Engineer

## Education and training

Dates  
Title of qualification awarded  
Principal domain  
Name and type of organisation  
Thesis subject  
Advisors

Dates  
Title of qualification awarded  
Principal domain  
Name and type of organisation  
Thesis subject  
Advisors

Dates  
Title of qualification awarded  
Principal subject  
Name and type of organisation

Dates  
Title of qualification awarded  
Name and type of organisation

2006-2013  
Joint PhD (with ENS Cachan)  
Structural Engineering  
Istanbul Technical University (ITU) , Dept. of Civil Engineering  
Damage Assessment of Civil Engineering Structures Under Extreme Dynamic Loads.  
Prof. Dr. Hasan Engin and Prof. Dr. Adnan Ibrahimbegovic

2009-2013  
Joint PhD (with ITU)  
Mechanics, Mechanical Engineering, Civil Engineering  
Ecole Normale Supérieure de Cachan (ENS Cachan), Dept. of Civil Engineering  
Damage Assessment of Civil Engineering Structures Under Extreme Dynamic Loads.  
Prof. Dr. Adnan Ibrahimbegovic and Prof. Dr. Hasan Engin

1998-2003  
Engineering Diploma (3.55/4.00 - high honour, 8<sup>th</sup> over 200 alumni in the department)  
Civil Engineering  
Istanbul Technical University, Istanbul, Turkey

1990-1998  
High School Diploma (French Baccalaureate)  
Galatasaray Lisesi, Istanbul, Turkey

## Personal skills

Languages  
Computer skills and competences

Turkish (mother tongue) , English, French  
Experienced with Fortran, FEAP, MS Office.

## Research skills

Journal Publications

1. Ayhan B., Jehel P., Brancherie D., Ibrahimbegovic A.  
Coupled damage-plasticity model for cyclic loading applications: Theoretical formulation and numerical implementation  
Engineering Structures, V.50, 2013, p.30-42

1. Ayhan, B., Kadioglu F.  
Free vibration analysis of curved composite beam by mixed finite element formulation  
15th Int. Conf. on Composites/Nano Engineering (ICCE-15)  
15-21 July 2007, Haikou, China.
2. Coban, M., Ayhan, B., Kadioglu F.  
Dairesel çubukların dinamik analizi  
(Dynamic analysis of circular Beams)  
15th National Congress on Mechanics  
3-7 September 2007, Suleyman Demirel University, Isparta, Turkey.
3. Ayhan, B., Kadioglu F.  
Mixed finite element solution on the out-of-plane natural frequencies of composite circular beams  
8th World Congress on Computational Mechanics (WCCM)  
30 June-4 July 2008, Venice, Italy.
4. Kadioglu F., Ayhan, B.  
Mixed finite element solution for in-plane free vibration analysis of circular composite beams  
16th Int. Conf. on Composites/Nano Engineering (ICCE-16)  
20-26 July 2008, Kunming, China
5. Ayhan, B., Kadioglu F.  
The out-of-plane natural frequencies of curved composite beams including the effect of the rotary inertia and shear deformation.  
9th Int. Conf. on Computational Structures Technology (by CIVIL-COMP)  
2-5 September 2008, Athens, Greece
6. Ayhan B., Jehel P., Engin H., Ibrahimbegovic A.  
Coupled damage-plasticity based constitutive modeling of metallic membrane element under cyclic loading.  
COMPADYN 2011/ ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, 25-28 May 2011, Greece.
7. Ayhan, B., Jehel, P., Ibrahimbegovic, A., Engin H.  
The energy dissipation in metal membrane under cyclic loading.  
IASS-IACM 2012: 7th International Conference on Computational Mechanics for Spatial Structures  
2-4 April 2012, Sarajevo, Bosnia-Herzegovina.
8. Ayhan, B., Jehel, P., Ibrahimbegovic, A., Engin, H.  
Ratcheting strain simulations of metallic structures.  
10th World Congress on Computational Mechanics (WCCM)  
8-13 July 2012, Sao Paulo, Brazil.
9. Ayhan, B., Ibrahimbegovic, A., Engin, H.  
Hasar-plastisite çifti modeli ile çevrimsel elastik olmayan davranışların incelenmesi.  
(Investigation of cyclic non-linear behaviour by using damage-plasticity coupling model)  
18th National Congress on Mechanics  
26-30 August 2013, Celal Bayar University, Manisa, Turkey.
10. Ayhan, B., Ibrahimbegovic, A.  
Material modelling for metals considering dynamic plasticity (Accepted)  
11th World Congress on Computational Mechanics (WCCM XI)  
20-25 July 2014, Barcelona, Spain.

Reviewer for	International Journal of Fatigue (1) Coupled Systems Mechanics (2)
Educational Activities	<p><i>Advanced Integral Equation Methods in Computational Mechanics</i> 16th CISM-IUTAM Summer School coordinated by Prof. M. Bonnet (Ecole Polytechnique, Paris, France) 7 – 11 July 2008, CISM (International Centre of Mechanical Sciences), Udine, Italy (with financial support from CISM)</p> <p><i>BEConstructive : Design it and Build it</i> BEST (Board of European Student of Technology) Course 28 March - 6 April 2008, Ecole Polytechnique, Paris, France (with financial support from ITU Dept. of Civil Engineering)</p>
Awards and Honors	<ul style="list-style-type: none"> <li>- Ph.D. Fellowship, French Government Ministry of Foreign Affairs, 2009-2012</li> <li>- Ph.D. Fellowship, The Scientific and Technological Research Council of Turkey (TUBITAK –BIDEB 2211), 2007-2011</li> <li>- Ph.D. Fellowship, The Scientific and Technological Research Council of Turkey (TUBITAK –BIDEB 2214), 2011 (6 months)</li> <li>- High Honors Degree Graduation Certificate, ITU, 2003</li> </ul>
References	Available upon request