

Curriculum Vitae

Asadollah Bassam
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University of Illinois at Chicago
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EDUCATION

University of Illinois at Chicago, Chicago, IL *May 2008*

Ph.D. in Structural Engineering

Dissertation: "Post Seismic Damage Assessment of Bridges Using Bridge Pier Ductilities"
Advisor: Farhad Ansari, Professor and Department Head
G.P.A: 4.0/4.0

University of Tehran, Tehran, Iran *Aug 2004*

M.S. in Structural Engineering

Thesis: "Evaluation of the effect of linear viscous Dampers on the Cable Vibration Mitigation"
Advisor: Masoud Motavalli, Head of Structural Engineering Research Laboratory, EMPA,
Switzerland
G.P.A: 18.15/20

University of Tehran, Tehran, Iran *Aug 2002*

B.S. in Civil Engineering

Graduated with honor, ranked 3rd among 85 graduates
G.P.A: 16.98/20

PUBLICATIONS

Peer-Reviewed Papers

- Bassam, S. A., Iranmanesh, A, and Ansari, F., 2008, "A Deformation Based Damage Assessment Methodology for Post Seismic Condition Monitoring of Reinforced Concrete Bridges," *Submitted to ASCE journal of Structural Engineering, In Review*
- Bassam, S. A., and Ansari, F., "Post Seismic Structural Health Monitoring of a Column Subjected to Near Source Ground Motions," *Journal of Intelligent Material Systems and Structures, Accepted, In press.*
- Bassam, S. A, Yu, B. J., and Ansari, F., 2007, "Fracture Energy of Concrete by Maturity Method," *ACI Materials Journal*, Vol. 104. No.1, pp. 77-85.
- Bassam, S.A., Shekarchizadeh, M., "A New Method in Estimating Concrete Quality By Using Maturity", *Journal of the Iranian Concrete Institute*, No. 7, May 2003, pp 14-17

Conference Papers

- Bassam, S. A., Iranmanesh, A, and Ansari, F, “Structural Health Monitoring of a Concrete Bridge Subjected to Northridge Earthquake Seismic Motions” to be presented at *2008 National Bridge Conference*, St. Louis, Missouri, May 2008
- Iranmanesh, A., Bassam, S. A., and Ansari, F., “Damage evaluation of a 4-span Concrete bridge Subjected to Near Source Ground Motions Using Nonlinear Finite element Method”, to be presented at *2008 National Bridge Conference*, St. Louis, Missouri, May 2008
- Ansari, F., Giacosa, L, Bassam, S. A, Tennant, A., Hongqiang, J., Stefano, A. D, "Design of Fiber Optic Based Monitoring Systems for Cable-stayed Bridges", *International Symposium on Innovation & Sustainability of Structures in Civil Engineering*, Nanjing, China, November 20-22, 2005
- Bassam, S. A., Tennant, G. A., and Ansari, F., "Evaluation of seismic response of bridge piers by surface mounted optical fiber sensors", *2nd International Conference on Structural Health Monitoring of Intelligent Infrastructure*, Shenzhen, China, 16-18 November 2005, pp 557-562
- Xu, Z., Bassam, A., Jia, H., Tennant, A., Ansari, F., “Fiber optic sensor reliability issues in structural health monitoring (Invited Paper)”, *SPIE*, Vol. No.5758, San Diego, California, USA, 6–10 March 2005, pp 390-404
- Bassam, S. A., "Evaluation of the effect of linear viscous Dampers on the Cable Vibration Mitigation", M.Sc thesis dissertation in Structural Engineering, University of Tehran, 2004.
- Talebinejad, I., Bassam, S.A., Iranmanesh, A.H., Shekarchizadeh, M., “Optimizing mix proportions of Normal Weight Reactive Powder Concrete with Strengths of 200-350 MPa”, *International symposium on Ultra High Performance concrete*, Kassel, Germany, Sept 2004, pp 133-141
- Bassam, S.A., Weber, F., Motavalli, M., “Mitigation of Cable Vibrations Using Rubber Bushings and Viscous Dampers“, *11th International Meeting on Low Frequency Noise and Vibration and its Control*, Maastricht, Netherlands, 30 August to 1 September 2004, pp 1-14
- Bassam, S.A., Talebinejad, I., Iranmanesh, A.H., Shekarchizadeh, M., “Shear Behavior of High Strength Concrete Beams Subjected to Shear Force”, *6th International Conference in Civil Engineering*, Isfahan, Iran, May 2003

EDITORIAL ACTIVITIES

Journal reviewer

Journal of Sound and Vibration

2006-present

Journal of Intelligent Material Systems and Structures

2006-present

EXPERIENCE

Academic

University of Illinois at Chicago (UIC), Chicago, IL

Sept 2004-May 2008

NDT and Smart Sensors Laboratory

Research Assistant with Prof. Farhad Ansari

Working on NSF/NEES funded project,

“Development of Reinforced Concrete Structural Damage Assessment Methodologies”
Extensively involved in experimental shake table testing as well as analytical modeling of the bridges using nonlinear SAP2000.

University of Illinois at Chicago (UIC), Chicago, IL
NDT and Smart Sensors Laboratory

Sept 2007-May 2008

Research Assistant with Prof. Farhad Ansari

Working on IDOT funded project,

“Development of a Fiber Optic sensor for real time monitoring of scour” Involved in small scale testing of the sensor and the scour modeling.

University of Illinois at Chicago (UIC), Chicago, IL

Jan 2005-May 2007

Teaching Assistant with Prof. Farhad Ansari

Non destructive testing of concrete

University of Tehran, Tehran, Iran

Sept 2000-Sept 2004

Concrete and Building Materials Laboratory

Research Assistant with Prof. Mohammad Shekarchizadeh

Development of Ultra High Strength/Reactive Powder Concrete

Achieved to make Ultra High Strength Concrete with $f'_c = 60 \text{ kips}$

University of Tehran, Tehran, Iran

Aug 2002-Aug 2004

Teaching Assistant with Prof. Iraj Mahmoudzadeh

Reinforced Concrete Structures I

Reinforced Concrete Structures II

Reinforced Concrete Structures Project

Industrial

Faroor Consulting Engineering, Inc, Iran

Nov 2003-Aug 2004

Design Engineer, Part of engineering team to design Persian Gulf largest Dry Dock including the large Mat foundation and piles in Persian Gulf, Iran

Tasks involved numerical analysis of the Mat foundation using SAP2000 and SAFE

Center of Water Research, Ministry of Energy, Iran

July 2001-Oct 2001

Summer Intern, Completed the design of an open-channel hydraulic research flume

Tasks involved numerical analysis of the flume truss girders using SAP2000

Iranian Ready Mixed Concrete Institute, Iran

Oct 2001-Oct 2002

Research Engineer, Designing mix proportion of High Strength Concretes for industrial production

HONORS AND AWARDS

- Ranked 76th in Iranian nationwide university entrance examination out of over half million applicants *Sept 1998*
- American Concrete Institute (ACI) award winner, first place in the ACI High Strength Concrete Cube Competition for achieving compressive strength of 60 ksi, held in conjunction with ACI Fall Convention, Dallas, Texas, USA *Oct 2001*
- Dean award for the best research project, University of Tehran *Oct 2001*
- President award for obtaining 1st rank in the ACI student contest, University of Tehran *Oct 2001*
- Alumni Outstanding Student of the year award, University of Tehran *Oct 2001*
- Hami Award of Excellence in Engineering Education, Fanni Reunion Foundation and APSIH, *May 2008*

COMPUTER SKILLS

SAP2000 , SAFE, ETABS, ANSYS (basic), AutoCAD, Microsoft Office, Matlab, LabView

SOCIETY MEMBERSHIP

- ASCE, Student member
- ACI, Student member
- Sigma Xi, The scientific Research Society, Associate member
- ISHMII* , Student member
- UIC GSC⁺ representative of Civil & Materials Engineering Department
- Alumni Association of Engineering School of Tehran University, member
- Fanni Reunion Foundation Inc., member

* International Society for Structural Health Monitoring of Intelligent Infrastructure (www.ishmii.org)

⁺ Graduate Student Council