

BAYRAM AYGÜN

Department of Civil & Environmental Engineering, Rice University

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|------------------------|-----------------------------|
| FIRST NAME: | BAYRAM |
| LAST NAME: | AYGÜN |
| DATE OF BIRTH: | JULY 1 ST , 1984 |
| PLACE OF BIRTH: | ISTANBUL, TURKEY |
| NATIONALITY: | TURKISH |
| STATUS: | SINGLE |



EDUCATION

Master of Science,
2007–2009 (Expected)

Rice University; < <http://www.rice.edu/>>

Civil and Environmental Engineering

GPA: 4.13/4.00

Thesis (Expected): “Seismic Fragility Assessment of Bridges Susceptible to Spatially Distributed Liquefaction Hazards”

Houston, Texas, USA

Bachelor of Science
2003-2007

Istanbul Technical University; < <http://www.itu.edu.tr/e/>>

Faculty of Civil Engineering, Department of Civil Engineering

GPA:3.56/4.00; Ranking number five out of 215 students.

Thesis (in Turkish): “Sekiz Katli Merkezi Caprazli Celik Ofis Binasi Tasarimi”
(Design of an eight-storey steel building having concentrically braced steel frames)

Istanbul / TURKEY

High School
1995-2003

St. George's Austrian High School; < <http://www.sg.k12.tr/index.php?id=126>>

Majored in natural sciences and mathematics (Honors Degree)

Istanbul / TURKEY

RESEARCH INTERESTS

- Probabilistic Soil – Structure Interaction Analysis
- Stochastic Mechanics and Reliability Analysis of Civil Structures
- Structural Dynamics & Control

SELECTED GRADUATE AND UNDERGRADUATE COURSES

- **Rice University**
 - Introduction to Operations Research and Optimization (by **Dr. Yin Zhang**)
 - Computational Methods in Structural Mechanics (by **Dr. Satish Nagarajaiah**)
 - Advanced Stochastic Mechanics (by **Dr. Pol D. Spanos**)
 - Neural Networks and Information Theory I (by **Dr. Erzsébet Merényi**)
 - Fundamentals of Control Systems (by **Dr. Marcia K. O'Malley**)
 - Bridge Engineering and Extreme Events (by **Dr. Jamie E. Padgett**)
 - Reliability of Urban Systems (by **Dr. Leonardo Dueñas-Osorio**)
 - Applied Monte Carlo Analysis (by **Dr. Pol D. Spanos**)
- **Istanbul Technical University**
 - Probability and Statistics (Dr. Alper Ilki)
 - Dynamics of Structures (Dr. Necmettin Gunduz)
 - Plastic Design of Steel Structures (Dr. Barlas Özden Çağlayan)
 - Earthquake Resistant Design of Structures (Dr. Zekai Celep)
 - Special Topics in Theory of Structures (Dr. Sumru Pala)

WORK & RESEARCH EXPERIENCE

- **Summer Practice**, Istanbul – Turkey
AKS Construction Control Corporation (August 2005)
- **Research Activity**, Structural and Earthquake Engineering Laboratory (June 2006)
- **Summer Practice**, ENKA Construction Company, Project Office (Istanbul/ Turkey) (July 2006)
- **Research Activity**, Prediction length analysis of nonlinear dynamical systems under the supervision of Assist. Prof. Mehmet Sayar and Prof. Dr. Ali Rana Atilgan (August 2006 - December 2006)
- **Graduate Research Assistant**, investigated the effects of soil liquefaction on highway bridges and created probabilistic fragility curves for a bridge-soil-foundation model typical of South Carolina (Rice University, Ryon Lab, August 2007 - Present)
(supervised by Dr. Leonardo Duenas-Osorio, Dr. Jamie Padgett and Dr. Reginald DesRoches)

CONFERENCE PRESENTATIONS

Aygun, B., Duenas-Osorio, L., Padgett, J. E., DesRoches, R..(2008) "Seismic Vulnerability Assessment of Bridges Susceptible to Spatially Distributed Liquefaction Hazards," *6th National Seismic Conference on Bridges and Highways*, Charleston, SC, July, 2008.

KEY ACHIEVEMENTS

- **Ranked top %3 percentile out of 1.200.000 students** in the university entrance examinations of Turkey in the year of 2002.
- **Ranked 3 out of 215 students** in Istanbul Technical University.
- **Full financial aid for graduate program at Rice University**
(In form of research assistantship during master's education)

COMPUTER SKILLS

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| Computers and Operating Systems | Windows XP |
| Application Packages | MS Office Suite |
| Others | AutoCAD, SAP2000, MatLab, OpenSees |

LANGUAGES:

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| Turkish | Native |
| English | Very Good |
| German | Good |

OFFICIAL TEST SCORES

- **TOEFL iBT Score:** 114/120 (Listening: 30/30; Writing: 29/30; Reading: 29/30;Speaking: 26/30)
- **GRE Score:** 1330/1600 (Verbal Score: 530/800; Quantative Score: 800/800; Analytical Writing: 4.0/6.0)

HOBBIES

- **Cinema**
(I have written and directed three short movies and I intend to continue on making movies for the upcoming years)
- **Turkish Folkloric Music**
- **Playing “bağlama”** (a Turkish Folkloric Music Instrument) regularly for nearly six years.
- Playing basketball & soccer regularly.

REFERENCES

Available upon request.