

# CURRICULUM VITAE

## ENDER OZKAN

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### EDUCATION

- University of Illinois at Urbana-Champaign (present)*  
Visiting Scholar, Department of Civil and Environmental Engineering
- Ph.D.** *The Johns Hopkins University (2000-completion expected in May 2003)*  
Research Topic: *Evaluation of Current Response Prediction Methodology for Long-Span Bridges By Using Long-Term Full-Scale Measurements*  
Research Advisor: Nicholas P. Jones
- M.S.** *The Johns Hopkins University (1998-2000)*  
Research Advisor: Nicholas P. Jones
- B.S.E.** *Middle East Technical University, Ankara, Turkey (1995-1998)*  
Department of Civil Engineering – A.B.E.T. Accredited (all courses in English)  
Major: Structural Engineering
- Gazi University, Ankara, Turkey (1994-1995)*  
Freshman (ranked 1<sup>st</sup> in class and subsequently transferred to M.E.T.U.)
- High School** *Saginaw Arts and Sciences Academy, Saginaw, Michigan (1990-1991)*  
High School, 7th Grade
- Luther Burbank School, Milwaukee, Wisconsin (1989-1990)*  
Elementary School, 6th Grade

### EMPLOYMENT

- Research Assistant** *The Johns Hopkins University (1998-present)*  
Conducted long-term measurements on the Fred Hartman Bridge – a cable-stayed bridge in Texas with a main-span of 1250 ft. – for evaluation of its response characteristics.  
  
Developed a suite of computer programs using the latest programming software to easily and efficiently perform aeroelastic analysis of long-span bridges.  
  
Performed a three dimensional Finite Element analysis of the Fred Hartman Bridge for evaluation of its modal characteristics.
- Design Engineer** *Prokon Design & Construction, Ankara, Turkey (January-August, 1998)*  
Concrete Design Division
- Intern Engineer** *OYAK Construction, Ankara, Turkey (June-August, 1997)*  
Fieldwork - Construction of high-rise residential complexes

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### RESEARCH

<b>Research Interests</b>	<i>Structural dynamics. Wind engineering, with emphasis on cable-supported bridge design. Remote sensing, structural health monitoring and experimental mechanics.</i>
<b>Participated Research Projects</b>	<b>Messina Suspension Bridge</b> , Italy (2002) <i>Will be the world longest bridge when completed, with a main span of 3000 m. Conducted flutter analysis as a part of a workshop study. (see [6] in publications)</i>
	<b>I-5/Gilman Advanced Composite Cable-Stayed Bridge</b> , La Jolla, CA (2001) <i>First cable-stayed bridge made using advanced composite materials. Performed flutter and buffeting analysis. (project coordinator: N. P. Jones)</i>
	<b>Lions Gate Suspension Bridge</b> , Vancouver, Canada (2001) <i>World's first replacement of a concrete deck with steel orthotropic deck. Investigated flutter susceptibility during deck replacement. (see [1] in publications) (project coordinator: N. P. Jones)</i>
	<b>Pomeroy Mason Cable-Stayed Bridge</b> , Pomeroy, OH (2001) <i>Cable-stayed bridge with 356 m main span, replacing the existing Pomeroy Bridge. Performed flutter and buffeting analysis of various alternative deck sections. (project coordinator: N. P. Jones)</i>

### TEACHING

<b>Guest Lecturer</b>	<b>The Johns Hopkins University</b> <u>Wind Engineering</u> (Spring 2001) Delivered 2 courses (3 hr. each) on wind induced response of long-span bridges.
<b>Teaching Assistant</b>	<b>The Johns Hopkins University</b> <u>Dynamics</u> (Fall of 1999, 2000 and 2001) Prepared exams and homeworks, organized lab sessions and carried out weekly recitation sessions during the fall of 1999 and 2000. <u>Structural Dynamics</u> (Spring of 2001) Conducted weekly office hours, graded homeworks and exams. <u>Probability and Statistics</u> (Spring of 2000) Head T.A. for the class. Duties included preparation of homeworks and exams, conducting weekly office hours and tutoring.

### HONORS, AWARDS AND MEMBERSHIPS

<b>Honors &amp; Awards</b>	<b>The Johns Hopkins University</b> Meyerhoff Fellowship (1998-1999) <b>Middle East Technical University</b> Honor student for seven consecutive semesters. <b>Gazi University</b> Outstanding performance award, first among 150 classmates.
<b>Memberships &amp; Activities</b>	<b>Member</b> , American Society of Civil Engineers, MD Chapter (1999-present) <b>Member</b> , Society of Engineering Education (2002-present) <b>Co-chairman</b> , J.H.U. Civil Engineering Graduate Student organization (1999-2001)

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### PUBLICATIONS

#### *Journal Articles*

[1] N. P. Jones, J. Raggett and E. Ozkan "PREDICTION OF CABLE-SUPPORTED BRIDGE RESPONSE TO WIND: COUPLED FLUTTER ASSESSMENT DURING RETROFIT", *Journal of Wind Engineering and Industrial Aerodynamics*, 2003. (accepted - in print)

[2] E. Ozkan and N. P. Jones "EVALUATION OF CURRENT RESPONSE PREDICTION METHODS FOR LONG-SPAN BRIDGES USING FULL-SCALE MEASUREMENTS", to be submitted to the *Journal of Wind Engineering and Industrial Aerodynamics*. (in preparation)

[3] E. Ozkan, D. Zuo, L. Caracoglia and N. P. Jones "OBSERVATIONS OF CABLE-DECK INTERACTION ON THE FRED HARTMAN BRIDGE", to be submitted to the *Journal of Structural Engineering*. (in preparation)

#### *Conference Papers*

[4] E. Ozkan and N. P. Jones, "EVALUATION OF RESPONSE PREDICTION METHODOLOGY FOR LONG-SPAN BRIDGES USING FULL-SCALE MEASUREMENTS", 11<sup>th</sup> International Wind Engineering Conference, Lubbock, TX, 2003. (accepted)

[5] E. Ozkan and N. P. Jones, "MULTI-MODE BUFFETING ANALYSIS OF A TWIN-DECK CABLE-STAYED BRIDGE ", *Response of Structures to Extreme Loading Conference*, 2003. (accepted)

[6] N. P. Jones, M. Stoetter, E. Ozkan and L. Caracoglia, "PREDICTED RESPONSE OF THE MESSINA BRIDGE USING FULLY COUPLED MULTIMODE FREQUENCY DOMAIN FORMULATION", *International Workshop on Bridge Aerodynamics*, Italian Association of Wind Engineering, Italy, 2002.

[7] N. P. Jones and E. Ozkan, "WIND EFFECTS ON LONG-SPAN CABLE-STAYED BRIDGES - ASSESSMENT AND VALIDATION ", *Proc. of UNJR Panel on Wind and Seismic Effects*, 2002.

[8] E. Ozkan, J. Main and N. P. Jones, "LONG-TERM MEASUREMENTS ON A CABLE-STAYED BRIDGE", *Proc. of IMAC-XIX Conf.*, Kissimmee FL, 2001.

[9] E. Ozkan, J. Main and N. P. Jones, "FULL-SCALE MEASUREMENTS ON A CABLE-STAYED BRIDGE ", *Proc. of 5<sup>th</sup> APCWE Conf.*, Kyoto Japan, 2001.

[10] E. Ozkan, J. Main and N. P. Jones, "INVESTIGATION OF CABLE-DECK INTERACTION USING FULL-SCALE MEASUREMENTS ON A CABLE-STAYED BRIDGE ", *Proc. of 1<sup>st</sup> Americas Conf. on Wind Engineering*, Clemson SC, 2001.

[11] E. Ozkan and N. P. Jones, "PREDICTED AND MEASURED RESPONSE OF A CABLE-STAYED BRIDGE ", *Proc. of ASCE Structures Congress*, Denver CO, 2001.