

**TEMESGEN MARKOS KINDO**

PhD Student (Sept. 2008 – To date)

Duke Computational Mechanics Laboratory

Duke University

Department of Civil and Environmental Engineering

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EDUCATION

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| <b>Master of Science (Cum Laude), Industrial and Applied Mathematics</b><br><i>Eindhoven University of Technology, Eindhoven, The Netherlands</i><br>Course track: Computational Science and Engineering<br>Thesis: Mechanical Degradation and Remodeling of Cerebral Arteries | Nov. 2006 |
| <b>Bachelor of Science (Great Distinction), Civil Engineering</b><br><i>Arbaminch Water Technology Institute (now Arbaminch University), Ethiopia</i>  | July 2002 |
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AWARDS

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| J. B. Duke Fellowship, Duke University, Sept. 2008 – To date    |
| Royal Dutch Shell Centenary Scholarship, Sept. 2004 – Aug. 2006 |
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PROFESSIONAL EXPERIENCE

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| <b>Junior Consultant</b><br><i>Laboratory for Industrial Mathematics, Eindhoven University of Technology, The Netherlands</i><br>✦ Mathematical modeling and simulations  | Feb. 2007-Jul. 2008  |
| <b>Guest Lecturer</b><br><i>Department of Civil Engineering, Jimma University, Ethiopia</i><br>✦ <i>Numerical Methods</i> (civil engineering undergraduates)  | Dec. 2006-Jan. 2007  |
| <b>Teaching Assistant</b><br><i>Department of Civil Engineering, Debub(Hawassa) University, Ethiopia</i><br>✦ <i>Engineering Mechanics, Mechanics of Materials, Introduction to Computing</i>                                   | Oct. 2003-Aug. 2004  |
| <b>Junior Civil Engineer</b><br><i>DANA and Associates Consulting Engineers, Addis Ababa, Ethiopia</i><br>✦ Structural and hydrologic design of minor bridges and culverts<br>✦ Quantity surveying and construction supervision | Sept. 2002-Oct. 2003 |
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COMPUTER SKILLS

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- ✦ General Programming – Proficient in C++, Fortran
  - ✦ Mathematical Environments – Proficient in Matlab and comfortable with Mathematica
  - ✦ Parallel Programming – some experience with MPI in C++
  - ✦ Finite Element Packages – Working knowledge of COMSOL
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RESEARCH/PROFESSIONAL INTERESTS

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- ✦ General
    - Applied Mechanics
    - Scientific Computing
    - Engineering Mathematics
  - ✦ Specific
    - Nonlinear Finite Element Methods
    - Computational Contact Mechanics
    - A posteriori error estimation and adaptive mesh refinement
    - Computational Inelasticity
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