PINLEI CHEN

3103 Newmark Civil Engineering Laboratory Tel: 217-979-3225 Email: pchen48@illinois.edu

EDUCATION

UNIVERSITY OF ILLINOIS Urbana-Champaign, IL
PhD, Structural Engineering, May 2013-Now GPA:3.83/4.0
Related Coursework:
Computational Inelasticity A Advanced FEM A Numerical Method for PDEs A

UNIVERSITY OF ILLINOIS Urbana-Champaign, IL
M.S., Structural Engineering, May 2013 GPA:3.9/4.0
Related Coursework:
Nonlinear Finite Element A Structural Mechanics A Structural Dynamics A

TONGJI UNIVERSITY Shanghai, China
B.S., Civil Engineering, June 2011 GPA:4.21/5
Field of Specialization: Disaster Reduction and Risk Assessment

RESEARCH EXPERIENCE

Research Assistant University of Illinois at Urbana-Champaign, Spring 2013-Now
A Variational Framework for Mathematically Nonsmooth Problems in Solid and Structural Mechanics

Independent Study University of Illinois at Urbana-Champaign, Fall 2012
Computational Modeling of Fibrous Composite Debonding

- Implement in the code the interface flux terms (in FEAP) and run 16 fiber bundle.

Structural Mechanics Term Project University of Illinois at Urbana-Champaign, Spring 2012

- Using MATLAB program to solve a three-bar nonlinear linkage system and taking into account the geometric imperfection and lateral loading.

PRESENTATIONS AND PUBLICATIONS

- Truster TJ, Chen P, Masud A. Finite Strain Primal Interface Formulation with Consistently Evolving Stabilization. International Journal for Numerical Methods in Engineering.102(2015).
- Truster TJ, Chen P, Masud A. On the Algorithmic and Implementation Aspects of a Discontinuous Galerkin Method at Finite Strains. Submitted to Computers and Mathematics with Applications. 70 (2015).
- CSE Poster Competition: Discontinuous Galerkin Method for Interfacial Mechanics at Finite Strains. April 2014.
- Truster TJ, Chen P, Masud A. Interface Damage in Composites under Finite Strains. Presented at the 17th U.S. National Congress on Theoretical and Applied Mechanics. June 2014.
- Chen P, Truster TJ, Masud A. Friction and Damage with an Interface Formulation with Consistently Evolving Stabilization. Presented at the 15th Pan-American Congress of Applied Mechanics. May 2015.
- Chen P, Masud A. Effect of Thermal Fields on Interface Strength: A DG method with Consistently Evolving Stabilization. Presented at the Engineering Mechanics Institute Conference. May 2016

SKILL

Certification: FE/EIT, Michigan, 2012 **Language Skills:** English; Chinese
Computer Skills: Python, MATLAB, Wolfram Mathematica, Fortran, SAP2000, AutoCAD, ABAQUS, PATRAN, ETABS, PKPM, Simulink, MathCAD.

TEACHING

Lab Teaching Assistance for CEE 300 Spring 2015, Fall 2015, Spring 2016

EXPERIENCE	Teaching Assistance for CEE 576	Fall 2013
	Teaching Assistance for CEE 360	Fall 2014, Spring 2013

AWARD	Excellent Teaching Assistant List	Fall 2015
	Engineering Graduate School Travel Award	Spring 2016
	CEE Structural Travel Award	Spring 2016