

Amir Chavoshi

Address: 105 S. Mathews Ave., Urbana, IL, 61801

Email: chavosh2@illinois.edu

Cell Phone: +1(217)372-1013

EDUCATION

Ph.D., Mechanical Engineering (January 2013-Present)
University of Illinois at Urbana-Champaign, Urbana, USA
Advisor: Prof. Predrag Hrnjak
GPA: 3.81/4

Master of Science, Mechanical Engineering (September 2008-July 2011)
Shiraz University, Shiraz, Iran
Advisor: Prof. Omid Abouali
GPA: 16.65/20

Bachelor of Science, Mechanical Engineering (September 2004- September 2008)
Shiraz University, Shiraz, Iran
GPA: 15.95/20

EDUCATIONAL HONORS

- 4th rank among 50 students in M.Sc. program with total average of 16.65/20 (2011)
- 3rd rank among 90 students in B.Sc. program with total average of 15.95/20 (2008)
- Rank 433 in M.Sc. Nationwide university entrance exam among about 30000 students (2008)
- Rank 1476 in B.Sc. Nationwide university entrance exam among more than half million students (2004)

TEACHING EXPERIENCES

- **Teaching Assistant, (2015-present)**
University of Illinois at Urbana-Champaign, US
 - Calculus II – Engineering (Fall 2015, Fall 2016, Fall 2017)
 - Calculus II (Spring 2016, Spring 2017)
 - Heat Transfer (Spring 2015)
- **Teaching Assistant, (2012)**
University of Wisconsin-Milwaukee, US
 - Fluid Mechanics (Fall 2012)
 - Heat transfer (Summer 2012)
 - Engineering Fundamentals II (Spring 2012)
- **Teaching Assistant, (2010-2011)**
Shiraz University, Iran
 - Thermodynamics (Spring 2011)
 - Heat transfer (Fall 2010)

RESEARCH EXPERIENCES

- **Research Assistant, (2013-present)**
University of Illinois at Urbana-Champaign, US
 - Pressure drop in headers of microchannel heat exchangers (MCHX) (PhD Thesis)

- **Research Assistant, (2012)**
University of Wisconsin-Milwaukee, US
 - Analysis of total suspended solid removal from waste water

- **Research Assistant, (2008-2011)**
Shiraz University, Iran
 - Numerical simulation of liquid-vapor separators in two-phase flow (M.Sc. project)

- **Main Course Projects in Undergraduate, (2004-2008)**
Shiraz University, Iran
 - Simulation of heat generation equation, using FLUENT (B.Sc. project)
 - Tracking particles in a two dimensional channel, using MATLAB
 - Examine the turbulent flow field over a tall building, using FLUENT
 - Numerical analysis of backward facing step in a turbulent flow using FLUENT
 - Simulation of 2D flow of non-orthogonal grid by SIMPLE algorithm

WORK EXPERIENCES

- **Teaching Instructor, (Fall 2009)**
Neyriz Azad University, Iran
 - Auto mechanics lab

PUBLICATIONS

- Ren, T., Chavoshi, A., Guoliang, D., Hrnjak, P., 2014. Single Phase Pressure Drop in Round Cylindrical Headers of Parallel Flow MCHXs. 15th International Refrigeration and Air Conditioning Conference at Purdue, West Lafayette, IN, USA, Paper #2542

SKILLS

- Programming language: EES, MATLAB, FORTRAN
- Mechanical software: FLUENT, GAMBIT, Pro/ENGINEER, SolidWorks