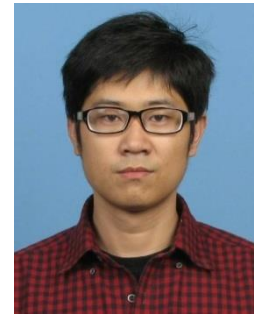


Xiaodong(Alex) JIA



Tel: (513)2381621
Email: jjaxg@mail.uc.edu
Homepage: <https://sites.google.com/site/watermansspace/>

Education

- University of Cincinnati** 09/2004 - 07/2008
Ph.d Candidate in Mechanical Engineering (IMS center)
Advisor: Prof. Jay Lee
- Shanghai Jiao Tong University (SJTU)** 09/2011 - 04/2014
M.S. in Turbo-machinery
- Central South University (CSU)** 09/2004 - 07/2008
B.S. in Engineering Thermodynamics

Work Experience - Full Time

- Siemens Power Equipment Packages. Co. Ltd** 07/2008 - 02/2011
Stream Turbine Project/Quality Control Engineer

Selected Projects

Hardware-in-the-loop simulation for CODLAG (Combined Diesel/Electric And Gas Turbine) system 06/2012 – 12/2013

- Established mathematical models of Gas Turbine and propeller; integrated the whole CODLAG simulation programs.
- Installed and tested the hardware of measurement and control system.
- Designed the control strategy for various operation modes of CODAG system.

Brazil Itaquí & Pecem 4 × 300 MW Steam Turbine Project. Siemens H-30 Steam Turbine Sub-contracting Projects 07/2008 – 02/2011

- Worked closely with Siemens Germany and Shanghai Turbine Plant on all the technical matters during steam turbine design and manufacturing.
- Attended quality inspections and prepared technical reports
- Processed other project related affairs and project scheduling

Simulation of falling liquid film on vertical wall by LBM 04/2013 – 01/2014

- Employed Shan-Chen model to simulate **falling liquid film flows**
- Employed potential form of intermolecular force to **eliminate parasitic currents**
- Adopted the double distribution scheme to accommodate **large density and viscosity ratios.**

Publications

Xiaodong Jia, Yongwen Liu. “Numerical Simulation of Falling Liquid Film on Vertical Wall by Using Lattice Boltzmann Two-Phase Model”, *Journal of thermodynamics*,2014.

Xiaodong Jia, , Yongwen Liu, Long Li. “Simulation of droplet splashing on flowing liquid film by using two-phase lattice Boltzmann method”, *Science Technology and Engineering*,2014.

Training Experiences & Extracurricular Activities

- **Technical training at Siemens Mulheim and Berlin Factory (German)**
Steam turbine design and manufacturing; Workshop Management;
Project Management; Quality Reports Issuing;
Siemens Project Documents Management System
- Membership of Chinese Mechanical Engineering Society
- Membership of SJTU Wind Power Club
- Membership of Shanghai Electric Creator Club

Skills & Test Scores

PROGRAMMING: Matlab/Simulink; C/C++/C#; LabVIEW; HMTL; SQL;