

LIQIANG HE

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Education

Master of Science: Computer Science

Oregon State University

Advisor: Dr. Rebecca Hutchinson

GPA: 3.5

Anticipated date of graduation: **06/2017**

Corvallis, OR, US

Master of Engineering: Mechanical Engineering

Oregon State University

Advisor: Dr. Vinod Narayanan

GPA: 3.5

07/2015

Corvallis, OR

Master of Science: General Mechanics and Basic Mechanics

Southwest Jiaotong University

Advisor: Prof. Ming Zhang

GPA: 3.2

07/2007

Chengdu, Sichuan, China

Bachelor of Science: Mechanical Engineering

Southwest Jiaotong University

GPA: 2.9

07/2004

Chengdu, Sichuan, China

Experience

Research Assistant

10/2015 to Current

Project: Species Distribution Modeling, Oregon State University

Corvallis, Oregon

- Study a Semi-Parametric Framework for Class-conditional Label Noise in Dr. Rebecca Hutchinson's Research Group (see Publications) .
- Explore noise influences from both class features and noise features.
- Implement "sqldf" package in R to manipulate big database system.

01/2016 to 03/2016

Project: CNN Deconvolution Boundary Detection, Oregon State University

Corvallis, Oregon

- Proposed a neural network architecture to detect boundaries in image by learning a CNN as feature detector, and deconvolve learnt features to restore images with clear contours.
- Achieved stable and reliable CNN Deconvolution Boundary Detection results.
- Used Python, C++, and Caffe

05/2014 to 04/2015

Research Assistant

Project: MuTherm, Oregon State University

Corvallis, Oregon

- Innovated a micro-combustor of CH₄ in Dr. Vinod Narayanan's research group.
- Achieved significant low heat loss by decreasing the critical length (channel height) of the device to 200 μm , with combustion rate of fuel of 98% at low temperature (only 500 °C).

07/2007 to 02/2011

Manager of Biding & Project Management

Jinxiang Sports Facilities Engineering Co

Suzhou, Jiangsu, China

- Finished 21 projects, amount over \$6,500,000.
- Liaison with customers, including elementary school, mid/high school, and local governments.
- Managed a 23-person's construction group, oversaw constructions of facilities.

Publication

Rebecca A. Hutchinson, Liqiang He, and Sarah C. Emerson. "Species Distribution Modeling of Citizen Science Data as a Classification Problem with Class-conditional Noise", in Proceedings of AAAI-17.

Skills

Python, R, Java, C, C++, MATLAB, JavaScript, Caffe, Theano, OpenGL, OpenMP, MySQL, Hadoop