

Ze-Yuan “Zack” Hu

Homepage: <http://zhu45.org/>
Email: ferrishu3886@gmail.com

EDUCATION

University of Texas **Austin, TX** **Sept 2017 - Present**
• M.S. in Computer Science. (GPA: –/4.00)

University of Wisconsin **Madison, WI** **Sept 2010 - Dec 2014**
• B.A. in Computer Science. (GPA: 3.74/4.00)
• B.A. in Economics with Honors. (GPA: 3.85/4.00)
• B.A. in Mathematics. (GPA: 3.81/4.00)
• Recipient of 2013 Honors Summer Sophomore Research Apprenticeship
• Recipient of 2012 Meek Bishop Scholarship in Economics, *top 2 out of 500 economics major students*

WORK EXPERIENCE

Software Engineer **IBM** **August 2015 – August 2017**
DB2 LUW federation team
• Construct Hive & Impala wrappers to support federation database between traditional RDBMS and Hadoop-based data warehouse solution
• Create automated setup tools that reduce product configuration time by 75%
• Enhance server option optimization tools to reduce federation database performance tuning time by 90 % and enable the capability of tuning the product against Hive, Impala, and Spark
• Resolve over 20 defects, including a severe memory leak issue that impacted a \$1.6 million deal. *Awarded IBM Manager’s Choice Award 2016*

Research Assistant **UW-Madison** **May 2013 – April 2014**
• Applied Spatial Gaussian Process & Dirichlet Process on fMRI data and improved power of testing on predicting Dementia based upon pixel value of the scan by 5 %

Research Assistant **UW-Madison** **September 2012 – May 2013**
• Used Support Vector Machine technique to examine the impact of Feedback on children’s learning outcomes
• Examined the statistical correlation between fMRI data and DTI data in measuring the brain activity of children during their learning process
• Created a data extraction & formatting toolkit in Python that can finish the processing of over 600 MB experimental data within 10 seconds

PROJECT

- **Watson Introspector** (2016), a cognitive tool built in Python on IBM Bluemix for understanding software, answering questions, and interacting with software architecture and data flows in 3D. *Awarded Second Prize in IBM China Development Laboratory Hackathon.*
- **OptiTimal** (2013), an android application that allows user to log their time usage and generate a simple statistical report that characterizes their time management style.
- **Checker** (2012), an AI engine developed in Java for checker game with alpha-beta pruning search algorithm, depth-first iterative deepening method.

TEACHING

- M408K Differential Calculus (Fall 2017, UT Austin)
<https://www.ma.utexas.edu/users/pmoraless/syllabus/syllabus.php?unique=53780>
Teaching Assistant

SPECIALIZED SKILLS

- **Languages:** C++; C; Java; Shell; Python; SQL; MATLAB; R; STATA
- **Software:** DB2; Eclipse; ClearCase; *nix; Emacs; Vi; Maven; Hadoop; Hive; Impala; Sqoop2; Spark
- **Attended Courses:** CS391L Machine Learning, CS395T Structured Models for NLP, CS395T Human Computation & Crowdsourcing