SHAN LU

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Education

Renmin University of China	**Beijing, China**

Bachelor of Science in Applied Mathematics June 2015(*expected*)

Cumulative GPA: 89.7/100, top 5%

Bachelor of Management in Agricultural Economics and Management, Summa Cum Laude June 2014

Cumulative GPA: 88.6/100

Recipient of Renmin University's President Scholarship for Overseas Study(**top 0.1%**, 20 undergraduates per year)

University of California, Davis	**Davis, California**

Exchange Student in Mathematics and Economics January 2012 - December 2012

Cumulative GPA: 3.97/4.0, with 9 out of 12 courses graded A+

Stanford University	**Stanford, California**

Summer Student in Computer Science June 2014 - August 2014

Highlighted CS courses: Introduction to Programming Design(A), Data Structures(A), Probability(A+), Numerical Analysis(A+), Object-oriented Programming and Software Development(A+), Computer System and Organization(A)

Overall CS GPA: 3.87/4.0 (8 courses)

Internship Experiences

Multimedia Computing Lab, School of Information, Renmin University of China	**Beijing, China**

Undergraduate Research Assistant (Advisor: Prof. Xirong Li) September 2013 - Present

- Implemented Negative Bootstrapping method with SVM on PASCAL VOC 2013 image classification task
- Reassembled the SVM classifier with a Histogram Intersection Kernel to improve the overall top-5 accuracy by 8%

Dalian Commodity Exchange Research Institute	**Beijing, China**

Intern Researcher (Supervisor: Dr. Dapeng Sun) July 2013 - September 2013

- Programmed a dominant contract monthly-effect detector for No.1 Soybean contract in Python
- Finished an industrial analytical report "U.S. Aluminum Market Premium and London Metal Exchange's Storage Policy"
- Drafted a tutorial about Bloomberg Terminal's API in commodities section research

JunBro ToWords Corportation(one of the top 3 English learning Apps in AppStore China), iOS Division	**Beijing, China**

Intern User Experience Designer January 2013 - March 2013

- Secured the internship chance at ToWords with insightful user feedback reports
- Built an econometric model measuring the correlation between hourly page views with working hours patterns
- Remodeled the user scoring system based on Elo's Rating System

Publication & Talks

Facial Expression Recognition Based on Discriminant Neighborhood Preserving Non-negative Tensor Factorization and ELM

Gaoyun An, Shuai Liu, Yi Jin, Qiuqi Ruan, and **Shan Lu,** *Mathematical Problems in Engineering(Vol. 2014)*

- Implemented the Extreme Learning Machines(ELM) method to classify human faces features

Game Characteristics and Feedback Period of MOOC(Massive Open Online Courses) Learning	**Changsha, China**

Student Speaker, CCF China National Computer Congress(CNCC 2013), MOOC Subforum October 2013

- Invited due to my distinctive coursework on MOOC Platforms(over 11 Statements of Accomplishment in CS courses)
- Compared MOOC with traditional classes in terms of game features (e.g. goals, rules and feedback systems)

Volunteer Works

Department of Linguistics, University of California Davis   June 2012 - October 2012

  • Teaching assistant of summer session course Chinese 1A and 3A, providing Chinese tutorial every Monday and Tuesday

Youth Volunteer Association, Renmin University of China   September 2011 - December 2011

  • Taught elective course "Principles of Economics" at Beijing No.171 High School for 10th grade students

CaiHong(Rainbow) Program , Ministry of Education   July 2011

  • Served as guide for students from Chihlee Institute of Technology, Taiwan

MOOC Certificates

  • Statements of Accomplishment **with Distinction**: Coding the Matrix (Brown, 97.5%), Computational Investing (Georgia Tech, 100%), Computing for Data Analysis (John Hopkins, 99%), Interactive Programming in Python (Rice, 90.9%), Introduction to Computational Thinking and Data Science (MIT, 93%), Introduction to Databases (Stanford, 90%), Web Application Architectures (University of Mexico, 90.9%)

  • Statements of Accomplishment: Bioinformatics Algorithms I (UC San Diego), Functional Programming in Scala (EPFL), Machine Learning (Stanford), Statistical Learning (Stanford)

Skills

  • Languages: Native in Chinese, full-proficiency in English

  • GRE: 324 (Verbal 154/170, Quantitative 170/170, Analytical Writing 3.5/6.0)

  • TOEFL: 108(Reading 30/30, Listening: 29/30, Speaking: 22/30, Writing: 27/30)

  • Programming Skills: C/C++, Python, Java, MATLAB, R, HTML/CSS/JavaScript, Visual FoxPro

Scholarships & Awards

  • Outstanding Graduate (*Summa Cum Laude*), Renmin University of China   June 2014

  • Academic Excellence Scholarship, Renmin University of China   September 2011, September 2013

  • Academic Perfection Award, University of California Davis   June 2012

  • President Scholarship for Overseas Study (**top 0.1%**, 20 over 2994 students of Class of 2014),   December 2011
     Renmin University of China

  • Award for Outstanding Leadership (class monitor from Sep. 2010 to Dec. 2011),   May 2011, September 2011
     Renmin University of China

  • Champion of e-Sports competition (Warcraft III: The Frozen Throne), Beijing No.5 High School   July 2008

  • Place in top 8, Beijing Sudoku Tournament   July 2007