Yingjun Guan

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HIGHLIGHTS

- ★ International education background at outstanding Engineering Departments for BS and MS
- ★ Proficient at programming and data analysis software
- ★ Excellent information related work and research experience in engineering
- ★ Leadership and teamwork experience in conference, competitions and volunteer activities

EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN, ILLINOIS   May 2022

Program	**Ph.D.** in Library and Information Science (admitted)

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN, ILLINOIS   Aug 2017

Program	**MS** in Information Management with a GPA of 4.0 / 4.0
Pathway	Career path/ Research interests in the field of data science and analytics.
Course	Advanced programming course for Python and R (LIS542, LIS452, LIS590DV)

PENN STATE UNIVERSITY, STATE COLLEGE, PENNSYLVANIA   July 2016

Program	**Ph.D. candidate** in Civil Engineering with a GPA of 3.5 / 4.0
Research	Research Assistant and Teaching Assistant of *Civil Engineering Material and Labs*
Publication	Ghahramani, S., Guan, Y., etc. Application of Nonlinear Resonant Ultrasound Spectroscopy (NRUS) Technique to Assess the Carbonation of AAS Concrete, Draft submitted.

INSTITUTE OF ENGINEERING MECHANICS, CHINA EARTHQUAKE ADMINISTRATION   June 2015

Program	**MS** in Structural Engineering with a GPA of 3.4 / 4.0
Research	Research Assistant of Mr. XIE Lili, member of ***Chinese Academy of Engineering***
Publication	Measurement and Analysis on Characteristic of Ground Vibration Caused by Blasting Demolition of Urban Overpass. **Engineering Sciences**, 16(11), 90–95.

TIANJIN UNIVERSITY   July 2012

Program	**BS** in Civil Engineering with a GPA of 3.4 / 4.0
	Class of Mao Yisheng (***top 60 students with solid foundation in math and engineering***)
Competition	The 4th Tianjin's Competition of Structure Design
	In charge of design and presentation. ***Team ranked 1st in the competition***.

COURSES AND TRAINING EXPERIENCE

Aug. 2016	Academic training and workshop on cutting edge software like Spark, Storm, mongoDB, etc. By being a member of the Association of Data Science and Analytics (ADSA), UIUC
Aug. 2016	Network Analysis; Information Modeling; Data Mining; Applied Business Research, etc. Taught by Jana Diesner, David Dubin, etc. from Department of Information Science, UIUC
Sep. 2015	Acoustic Data Measurement and Analyses; Digital Signal Processing Taught by Thompson; Richard Karl from Graduate Program of Acoustics, PSU
Aug. 2013	Fundamentals of Catastrophe Risk Modeling Taught by Weimin Dong, American RMS Company
2009-2011	Probability Theory & Math Statistics; Field Theory & Complex Functions; Engineering Math Analysis in Tianjin University

PUBLICATION

- Hu, J., Yang, Y., & Guan, Y. (2014). Measurement and Analysis on Characteristic of Ground Vibration Caused by Blasting Demolition of Urban Overpass. Engineering Sciences, 16(11), 90–95.
- Ghahramani, S., Guan, Y., Shokouhi, P. & Alexandra, R. Application of Nonlinear Resonant Ultrasound Spectroscopy (NRUS) Technique to Assess the Carbonation of AAS Concrete, submitted.

CONFERENCE AND COMPITITION

Oct. 2016	**HackCulture – Hackathon for the humanities, UIUC, USA**

Cleaned and analyzed more than 50,000 data records from Champaign-Urbana gov data sources. Accomplished the project with the theme of crime and safety. Marked the most dangerous 50 places in Champaign-Urbana area in the real-time map and forecast the future trend of different types of crimes with the historical data in the past 25-30 years.

Aug. 2014	**9th China National Conference on Earthquake, Harbin, China**

Participated in the group discussion of structure design with scholars across the country on multi-hazard structure design methods and delivered presentations on my method
Organized the conference structural blind test by participating in experiment model setting up, data collection and data processing

Oct. 2010	**The 4th Tianjin's Competition of Structure Design, Tianjin, China**

Designed a ship-shaped tower by simulate calculation and model construction
Delivered a presentation as team-leader, introducing theoretical basis of the model
Won the first prize of the high-building section in this competition (Rank 1st)

RESEARCH AND PROJECT EXPERIENCE

Business Consulting Project (working with PwC)   Aug 2016 - Jan 2017

Working as team leader & technical writer, in charge of:
- Market research and recommendation on knowledge management software solution (KMS)
- Technical writing on User Manual for the KMS and client's internal implementation
- Final presentation and demonstration

HackCulture – Hackathon for the humanities   Oct 2016 – Nov 2016

Working as project manager & programmer, in charge of:
- Cleaned and analyzed more than 50,000 data records from government data sources
- Marked the most dangerous 50 places in Champaign-Urbana area in the real-time map and forecast the future trend of different types of crimes with the historical data in the past 25-30 years

Ultrasound Measurement of Nonlinearity Induced by Thermal Shift   Nov. 2016 – Present

Working as experiment designer and conductor, in charge of:
- Proposed a new approach (thermal induced nonlinearity testing) for structure health monitoring, and compared with current approaches (DAET)
- Conducted experiments, collected data from both tests (thermal and DAET) and compared the nonlinear parameters calculated with two methods

Association of Data Science and Analytics Program   Nov. 2016 – Present

Working as trainer & presenter, in charge of:
- Doing research on cutting edge software like Spark, Storm, MongoDB, etc.
- Offering free training and presentation to the campus student in UIUC.

Application of New Ultrasound Spectroscopy and Testing Measurements   Sep 2015 – Jun 2016

Working as researcher, in charge of:
- Doing research on new techniques for structural examination and analyses
- Conducting experiments and collecting date for further analyses.

Blasting Demolition of Zhuangyang Viaduct   Sep 2013

Working as calibration operator & technical advisor, in charge of:
Assisting the discussion and finalization of the demolition plan
Collecting and analyzing data of vibration in the process of demolition.

OTHER FACTS

- Programing Software: Python, R, MATLAB, Fortran 95, LabView
- Database Software: Spark, MongoDB, MySQL, NoSQL, Microsoft Access
- Language: Native Mandarin speaker; English as a capable working language
- Personal webpage: http://guanyingjundatju.wixsite.com/yingjun
- GitHub Repository: https://github.com/yingjun2