Xiao Ling Ph.D. Candidate in Systems modeling Virginia Commonwealth University

EXPERIENCE

Virginia Commonwealth University

Virginia, USA

July 2017 - Present

Email: lingx@vcu.edu

Phone: (347)-841-6580

Website: maovurin.github.io

Graduate Teaching Assistant

- Collaborates with faculty to develop machine learning algorithms.
- Delivered research presentations at well recognized conferences.
- o Lectured, instructed labs, proctored exams, graded tests and assignment for general courses in mathematics.

The University of Toledo

Ohio, USA

Teaching Assistant

Jan 2016 - Jun 2017

Lectured, instructed labs, proctored exams, graded tests and assignment for general courses in mathematics.

General Electric Healthcare

Shanghai, China

Demand Planning Analyst

Sep 2012 - Feb 2016

- Implemented demand planning with configuration of production requirements, planning book, forecasting strategies (Time series analysis and linear regression).
- \circ Developed multiple ad-hoc Visual Basic for applications in forecasting ,data cleaning, data visualization.
- Configured APO Data Mart with Key Figures, Characteristics, Data Sources, and Info Cubes to store historical sales invoice data which is gathered from R/3 and non-R/3 systems.
- Maintained global executive supply & demand planning report.
- o Training team members on various techniques.

Shanghai Shi-Cheng Electronics Technology Company

Shanghai, China

Analyst and Consultant

Sep 2003 - Aug 2012

- o Developed multiple Data Analytical Visual Basic for applications.
- Launched various statistical model using R and SPSS.
- $\circ~$ Reconciled various datasets in VBA to generate Interactive Dashboard.
- o Maintained reports on a weekly, monthly and quarterly basis.

HIGHLIGHTS

- Experienced in designing, implementing, testing, and deploying an algorithm to handle big data.
- Strong background in computer vision, machine learning, and statistical analysis.
- Strong system builder, excellent presenter, and team player.
- Independent, creative, and rigorous thinker.

TECHNICAL EXPERTISE

- Programming: R, Scala, Spark, SQL, SAS, VB, C
- Projects: VBA Interactive Dashboard, Implement Sparse Robust PCA in Spark, Implement KPCA in C/R

EDUCATION

Virginia Commonwealth University

Virginia, USA

Doctor of Philosophy in Systems Modeling and Analysis

Aug 2017 - Exp. Summer 2021

The University of Toledo

Ohio, USA

Master of Science in Statistics

Aug 2015 - Jun 2017

University of Shanghai for Science and Technology

Shanghai, China

Bachelor of Power Plant and Thermal engineering

Aug 1998 - Jun 2003

RESEARCH AREAS

- Theory/algorithms for L_1 -norm subspace estimation.
- Subspace learning Applications to computer vision.
- Algorithms implementation on the parallel processing framework Apache Spark in cloud AWS, Azure and GCP.

Ongoing Project

• **Kernel** L_1 -**PCA** Developing a kernel version of L_1 -norm PCA

PUBLICATIONS

- Xiao Ling, Paul Brooks, L_1 -norm regularized L_1 -norm best-fit line problem The 15th INFORMS Virtual Workshop on Data Mining and Decision Analytics
- Xiao Ling, Paul Brooks, Image Denoising via patch based L_1 -norm principal component Analysis SPIE Defense + Commercial Sensing

RESEARCH OUTPUTS

- Apache Spark(Scala): L_1 -norm regularized L_1 -norm best-fit line algorithm.
- R: Image Denoising via patch based L_1 -norm principal component analysis.
- C: Kernel L_1 -principal component analysis.

PROFESSIONAL SOCIETIES

- Institute for Operations Research and Management Science (INFORMS) Quality, Statistics & Reliability Section and Optimization Society Subdivision
- The international society for optics and photonics(SPIE)