Xiao Ling Ph.D. Candidate in Systems modeling

Virginia Commonwealth University

EDUCATION

Virginia Commonwealth University

Doctor of Philosophy in Systems Modeling and Analysis

Aug 2017 - Exp. May 2021

Website: maovurin.github.io

Email: lingx@vcu.edu

Phone: (347)-841-6580

The University of Toledo

Master of Science in Statistics

Aug 2015 - Jun 2017

Saginaw Valley State University

Master of Business Administration

Michigan, USA

University of Shanghai for Science and Technology

Bachelor of Engineering in Power Engineering and Engineering Thermal physics

Shanghai, China

Research Interests

My main research interest is theory and algorithm for optimization for subspace estimation and its application in computer vision.

SKILLS SUMMARY

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

Programming Skills

Languages: R, Scala, Spark, SAS, Python, VBA, C

EXPERIENCE

Virginia Commonwealth University

Virginia, USA

Graduate Teaching Assistant

July 2017 - Present

• Teaching an undergraduate level math course including concepts and applications of linear, exponential, logarithmic, power and quadratic functions, graphing, transformations and inverses of functions, algebra and composition of functions.

The University of Toledo

Ohio, USA

Teachina Assistant

Jan 2016 - Jun 2017

- o Taught Business Calculus Recitation section. Implemented stimulating examples to capture students' attention and interest. Created and administered regular quizzes and tests to tract student progress.
- Offered after-school tutoring to help struggling students improve their skills and critical thinking.
- Conducted PCA, CCA, Regression Statistical analysis on real projects.

General Electric Healthcare

Shanghai, China

Sep 2012 - Aug 2015

Demand Planning Analyst

- Conducted and tuned critical parameters for multiple regression model in SAP APO system.
- Tuning Monthly Global demand forecast with a cross-functional global team including meeting, training personnel and collecting data.
- Developed AD-Hoc Dynamic applications based on Excel and Access for global teams. Significantly saved reporting time and reduced process errors.
- Developed an Visual Basic API to automate demand dataset reconciliation and regression forecast output.
- 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.
- Training junior team member.

Virginia, USA

Ohio, USA

Aug 2009 - Jun 2011

Aug 1998 - Jun 2003

Freelancer New York, US Jun 2011 - Aug 2012

Data Analyst and VBA Programmer

• Developed a Data processing application with VBA.

• Conducted various statistical model using R and VBA.

Shanghai Shi-Cheng Electronics Technology Company

Analyst and Consultant

Shanghai, China Sep 2003 - Aug 2009

- o Reconciled data from multiple sources into Excel or Access using advanced Excel functions to generate spreadsheets and pivot tables.
- Optimized data collection procedures and generated reports on a weekly, monthly and quarterly basis.
- Utilized SPSS statistical software to track and analyze data.
- Developed and initiated more efficient data collection procedures using VBA.

Ongoing Projects

- Image denoising via patch based L1-PCA A novel image denoising framework that produces a one-dimensional dictionary based on the L_1 -norm.
- **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 Implemented in Spark using Scala: github.com/maovurin/Sparse-L1

Professional Societies

• Memberships: Institute for Operations Research and Management Science (INFORMS) Quality, Statistics & Reliability Section and Optimization Society Subdivision.