

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

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SUMMARY

Highly experienced in mathematical modeling, data processing, and statistical interpretation and prediction. I would welcome the opportunity in a data/analytical science position to apply mathematical, statistical, and programming skills to conceptualize, build, and implement intelligent systems.

SKILLS

- **Communication:** Presented both in business and academia. Toastmaster member since 2015.
- **Problem-solving:** Developed Executive Dashboard, simplifying reporting and data consolidation procedures.
- **Technology:** R, Scala, Apache Spark, SQL, SAS, VBA, C
- **Science:** Decision Analytics, Statistics, Optimization, Mathematical Modeling, Signal Processing, Pattern Recognition
- **Soft Skills:** Attention to detail, Strong sense of commitment, High in grit.

EXPERIENCE

- **Virginia Commonwealth University** Virginia, USA
Graduate Teaching Assistant July 2017 - Present
 - Collaborates with faculty to develop machine learning algorithms.
 - Delivered research presentations at well recognized conferences.
 - 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).
 - 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.
 - Training team members on various techniques.

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
- **Saginaw Valley State University** Saginaw, USA
The Master of Business Administration Aug 2009 - Jun 2011
- **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 ACCOMPLISHMENTS

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

ADDITIONAL EXPERIENCE

- Project Coordinator with Shanghai China electric green technology group (Sep 2003 - Aug 2004).
- Sales Consultant with several companies(Sep 2004 - Jul 2006).
- Instrument Technician with Shanghai New Shanghua Polymer Material Company Limited (Jul 2006 - Jul 2009).
- Finance Analyst with Craft Company Inc.(Jul 2010 - Apr 2011).
- Sales Administrator with Dahlia Fashion (Sep 2011 - Feb 2012).
- Outside Sales with Monda Window and Door Systems, Inc. (Mar 2012 - Jun 2012).

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)