Jianqing Jia

Department of Mathematics, Syracuse University
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RESEARCH INTERESTS

Optimization, Augmented Reality, Computer Vision, Machine Learning

EDUCATION

Ph.D. candidate, Applied Mathematics, Syracuse University

- Research topic: Optimization and machine learning
- Advisor: Professor Lixin Shen

M.S., Computational Mathematics, Hebei Normal University & Temple University

- Research topic: Augmented reality, wavelet analysis and image processing
- Thesis: "Image-driven Label Placement for Augmented Reality"
- Advisors: Professor Wei Guo (Math) & Professor Haibin Ling (Computer science)

B.S., Mathematics, Hebei Normal University

- Recommended for Master's program admission, GPA: 3.69/4, Rank: 1/110

PUBLICATIONS

Google Scholar profile: https://scholar.google.com/citations?hl=en&user=3Crep68AAAAJ

Journal Articles

- [1] Semir Elezovikj, Jianqing Jia, Chiu C Tan, and Haibin Ling, "PartLabeling: A Label Management Framework in 3D Space." *The Visual Computer*, 2022, in press.
- [2] Jianqing Jia, Semir Elezovikj, Heng Fan, Shuojin Yang, Jing Liu, Wei Guo, Chiu C Tan, and Haibin Ling, "Semantic-aware label placement for augmented reality in street view." *The Visual Computer*, 37(7):1805-1819, Springer Berlin Heidelberg, 2021.
- [3] Jing Liu, Shuojin Yang, Liang Tian, Wei Guo, Bingyin Zhou, Jianqing Jia, and Haibin Ling, "Multi-component fusion network for small object detection in remote sensing images." *IEEE Access*, 7:128339-128352, IEEE, 2019.

Conference Article

[4] Jianqing Jia, Yu Zhang, Xiaoce Wu, and Wei Guo, "Image-based label placement for augmented reality browsers." 2018 IEEE 4th International Conference on Computer and Communications (ICCC), pp. 1654-1659, IEEE, 2018

Honors and Awards

- Excellent Master's thesis in Hebei Province (award rate 0.6%), 2020
- National Scholarship (graduate level), 2018
- The 2nd Prize in 14th National Mathematical Contest in Modeling for Graduates, 2017
- First-Class Graduate Academic Scholarship (2 times), 2016–2018
- Excellent Undergraduate Student of Hebei Province, 2015
- The 2nd Prize in 13th National English Public Speaking Contest, 2013

EMPLOYMENT HISTORY

• Teaching Assistant, Syracuse University	Syracuse, NY USA, 2019—now
• Research Assistant, Syracuse University	Syracuse, NY USA, 2019—now
• Research Assistant, Temple University Department of Computer and Information Sciences	Philadelphia, PA USA, 2018–2019
• Teaching Assistant, Hebei Normal University	Shijiazhuang, Hebei China, 2017—2018
• Lecturer, Hebei College of International Education	Shijiazhuang, Hebei China, $2016\!-\!2018$
• College Counselor, Hebei Normal University	Shijiazhuang, Hebei China, $2015-2016$

FUNDINGS AND SCHOLARSHIPS

- Research Assistantship, 2019–2022, NSF research grant #1913039 Sparse Optimization in Large Scale Data Processing: A Multiscale Proximity Approach
- Research Assistantship, 2020–2022, NSF research grant #1818833

 Fast Algorithms for Simulating the Collective Swimming of Microorganisms
- Member, 2018, National Natural Science Foundation of China (NSFC) #11826013 Conference on mathematical culture communication in the internet age
- Principal Investigator, 2017-2019, Innovation research grant for Graduates #CXZZSS2018059
 Image-based label placement for augmented reality browsers
- Member, 2019-2021, National Natural Science Foundation of China (NSFC) #61802109
 Information fusion-based depth estimation and virtual view synthesis in true 3D volumetric display

Teaching

Instructor of 1	Record
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Syracuse University

- MAT 222 Elementary Probability and Statistics II	Spring 2022	
- MAT 284 Business Calculus	Summer 2021	
- MAT 285 Life Sciences Calculus I	Fall 2021	
- MAT 286 Life Sciences Calculus II	Spring 2021	
Hebei College of International Education		
- MAT 141 Pre-Calculus	Summer 2016	
- MAT 151 Calculus I	Fall 2016	
- MAT 202 Business Calculus I	Spring 2017	
- GRE Math	Spring 2018	
Teaching Assistant Syracuse University		
- MAT 121 Probability and Statistics for the Liberal Arts I	Fall 2019, Fall 2020	
- MAT 122 Probability and Statistics for the Liberal Arts II	Spring 2020	

Hebei Normal University

-	· Advanced Algebra II	Fall 2017
-	· Analytic Geometry	Spring 2018

SKILLS

Mathematical and Statistical skills

- Mathematics: Numerical Analysis, Numerical Optimization, Numerical Linear Algebra
- Statistics: Linear Models, Bayesian Inference, Stochastic Processes, Ranking and Selection

Computational Skills

• Programming language: Matlab, R, Python, C

Professional Memberships

- American Mathematical Society, 2019 now
- Mathematical Association of America, 2019 now

References

Available upon request.

• Ph.D. Advisor: Lixin Shen

Professor, Mathematics Department, Syracuse University

Email: lshen03@syr.edu

• M.S. Advisor: Haibin Ling

Empire Innovation Professor, Department of Computer Science, Stony Brook University

Email: hling@cs.stonybrook.edu

• Pinyuen Chen

Professor, Director of Statistics Program, College of Arts and Science, Syracuse University

Email: pinchen@syr.edu