
YIMING WANG

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Summary

Motivated recent Industrial Engineering graduate seeking a Data Scientist position. Strong quantitative background and proved analytical skills. Expertise in current trend analysis to discover relevant data focused on operations improvement, enhanced market impact, or product acquisition methods. Real project experience in large scale data analysis. Open and clear communicator at all levels with demonstrated business and strategic vision and disciplined execution.

Current status: CPT at Air force Lab at REEF

OPT starts at Aug 20th, 2015

Education

Ph.D: Industrial and Systems Engineering 2015

Texas A&M University

- **Thesis: Connectivity Constraints In Network Analysis**
- GPA: 3.95 out of 4
- Golden Key International Honor Society

Bachelor of Science: Mathematics 2010

Nankai University

- GPA: 3.9 out of 4
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Experience

Relevant Projects

- Managed large scale data and extracted hidden information by statistical tools and network-based models
- Facilitate projects by concrete analysis of each specific problem and application of different solving methods
- Ensured research projects align with company processes, tactical planning, and strategic vision by regular meetings with colleagues from companies
- Won Second Prize of *Dow Big Data Challenge* (Saved 40% of total transportation cost of Dow) while results of *Soccer Data Mining from Twitter* and *Wind Energy Analysis* were adopted by companies

Research and Analysis

- Focused on both theoretical and practical topics
- Developed both exact algorithms and heuristics to solve various network design and analysis problems
- Submitted and published results in top journals like *math programming* and *discrete math*
- Were invited as a visiting researcher to AirForce Lab for two summers

Instructional Experience

- Oversaw one section of Engineering Economy independently for four semesters
- Developed and implemented creative lesson plans to reach a diverse student audience
- Met students' satisfaction by evaluation of 4.12/5, 4.61/5 and 4.57/5

Community Service

- Joined Big Event to do volunteer service to community three times (Year 2011-2013)
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Work History

Visiting Researcher at Air Force Lab 05/2014 to 08/2014

Soccer Data Mining at StatDna 04/2014 to 07/2014

Dow Big Data Challenge at Dow 03/2014 to 05/2014

Visiting Researcher at AirForce Lab 07/2013 to 08/2013

Wind Energy Analysis at Dow 05/2012 to 08/2012

Student Research Associate at Microsoft Research Asia 11/2008 to 06/2009

Professional Publications

- J.Pattillo, Y.Wang, and S.Butenko. Approximating 2-cliques in unit disk graphs. Discrete Applied Mathematics(166):178-187, 2014.
- Y.Wang, A.Buchanan, S.Butenko. On imposing connectivity constraints in integer programs. Submitted to math programming.
- A. Buchanan, Y.Wang, S.Butenko. Exact algorithms for node-weighted Steiner tree and maximum-weight connected subgraph. Submitted to Networks
- Y.Wang, S.Butenko. Two-guards problem in curvilinear polygons. Working paper
- Z. Ertem, Y.Wang, S.Butenko. Characterizing and Detecting Independent Union of Cliques. Working paper

Technical Skills

- Global optimization, Stochastic Programming, Network flow analysis, Data Mining
- Software: C#, CPLEX, Excel, R, SAS, C++, Python, VB, Java, SQL