

# Lujie (Karen) Chen

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## EDUCATION

**December 2004, Carnegie Mellon University, Pittsburgh, PA**  
Master of Information Systems Management, GPA 3.99/4.0  
Graduation with Highest Distinction, W.W. Cooper Scholarship Recipient  
CFA LEVEL II Candidate

**July 1998, Shanghai Jiaotong University, Shanghai, P.R. China**  
Bachelor in Business Administration and Computer Science, GPA 3.5/4.0

## WORK EXPERIENCE

**January 2005 – Present, Auton Lab, Carnegie Mellon University, Pittsburgh, PA**  
*Research Analyst*

- Design and implement experiment with statistical/data mining procedures on lab's project, perform analysis on experiment result, draft client report to communicate and report the findings
- Support other lab team member's research project by providing benchmarking results

**May – August 2004, Caterpillar/Global Engine Development, Peoria IL, USA**  
*Data Mining Analyst (Summer Intern)*

- Formulated engine test problem into data mining framework using knowledge acquired for engine systems
- Performed data compilation, cleaning and initial exploration on over 100 instances of engine test data
- Facilitated technical communication between Carnegie Mellon Auto Lab data mining team and Caterpillar

**January 2002 – July 2003, Coca-Cola Greater China Division, Shanghai, P.R. China**  
*Financial Analyst*

- Advised senior management on mid-range operations and strategic decisions using business/financial analysis
- Initiated and implemented a \$200,000 cross-functional business intelligence system which improved the transparency and efficiency of budgeting, planning and business analysis processes of the entire division

**June – December 2001, Forbes China Entrepreneurship Project, Shanghai, P.R. China**  
*Research Analyst(Short term assignment)*

- Compiled and analyzed private sector data from SEC filings, annual reports and other published media
- Conducted interviews with entrepreneurs and contributed to articles in Forbes magazine and research papers

**July 1998 – March 2001, Arthur Andersen & Co., Shanghai, P.R. China**  
*Senior Auditor*

- Took a leading role in a variety of auditing projects including business process analysis, internal control review, due diligence, financial statement reviews in multiple industries and business contexts.

## RELEVANT ACADEMIC WORK

### DATA MINING

- Data Mining I – Fall 03 (A)
- Data Mining Independent Study – Spring 04 (A+)
- Data Mining II – Fall 04 (A+)
- Teach Assistant for Data Mining I – Spring 04

### DATABASE, SYSTEM ANALYSIS AND DESIGN

- Advanced Database Management (A)
- Object Oriented Programming in Java, C++ (A)
- Object Oriented Analysis and Design (A)
- Distributed Technology, Internet Technology (A+)

## RELEVANT PROJECT EXPERIENCE

### *Data Mining/Analysis*

- **Data Mining Feasibility Study and Exploratory Analysis with Coca-Cola Greater China – Spring 04**  
Explored and Applied data mining algorithms (clustering, rules learning, time series etc.) on 10 years' sales volume and market share data, reported relevant results regarding market segmentation, forecast accuracy and sales trending, and evaluated data mining feasibility for the company

### *Business Intelligence/Data Management*

- **Data Management Portal with Immune Tolerance Network – Fall 04**  
Implemented an OLAP web application to provide analytical functions for clinical trial and assays data
- **Clinical Reminder System with Western Pennsylvania Hospital – Fall 04**  
Designed and implemented reporting module for clinical reminder system using Crystal Report and ASP.NET

## COMPUTER SKILLS

- **Database:** Oracle 9i, Access, MS SQL Server 2000
- **Analysis Package:** SPR Miner, Clementine, WEKA (open source data mining tool), MATLAB, S-Plus, R
- **Programming:** Python, Unix Shell, Java, C/C++, J2EE, XML, PL/SQL, ASP.NET with C#, VBA