**Mei Tong， Ph.D**chongchongma@gmail.com | 647-881-3254 | [http://www.linkedin.com/in/tong-mei](http://www.linkedin.com/in/tong-mei-b96997233)

**SUMMARY**

* **Experienced data explorer with passion in bridging business value and advanced technologies.**
* **10+ years of in-depth Data Mining experience in SQL and NoSQL**
* **Proficient and passionate in programming with Python (PySpark, Pandas), Java, R, C, VBA, outstanding debugging skills**
* **Working experience covers data management lifecycle, including data ingestion, ETL/ELT, data modeling, data processing, data analyzing, data sharing, data quality, data security and data governance.**
* **Expert in RDBMS model, optimization, store procedures, partitions, performance monitor, backup/restore**
* **Proficient in Microsoft Azure cloud and on-premises Analytics Services / Tools (Azure Data Factory, Databricks, Synapse analytics, Power BI, SQL Server, SSIS, SSAS, SSRS)**
* **Proficient in processing big data and using analytic tools such as Hadoop, PostgreSQL, Teradata, Oracle, OBIEE, Tableau, Excel**
* **Experienced technical roles as developer, business system analyst, product manager, technical lead, technical system analyst**
* **Profound knowledge and experience in Machine Learning, Deep Learning, OLAP, OLTP, Data Warehouse, Data Lake, Delta Lake, Lakehouse**
* **Master's Degree in Computer Science**
* **Once owned two patents related to status estimation and prediction involving static GIS data and large amount of real-time GPS data under a prototype of cloud computing**

**PROFESSIONAL EXPERIENCE**

**Senior Technical System Analyst of Data & Analytics BI,** Royal Bank of Canada, Toronto **Oct. 2015 – Present**

*I am responsible for providing stable, high performance, accurate business reporting systems, by ingesting, processing, analyzing and sharing data to different LoBs, and collaborating with business users, business analysts and other technical teams.*

* Enabled 3 lines of BI analytics systems based on OBIEE, SQL OLAP and Reporting Server respectively, served 20+ servers, hundreds of applications and thousands of business users in production environment
* Collaborated with stakeholders in collecting requirements, modeling data, developing, testing and implementing improvements into production, created OLAP cubes and OLTP reports for 3 major business departments, extended business insights and shorten the data refresh time from monthly to daily.
* Troubleshot issues caused by missing/inconsistent data, software defects, insufficient privilege, business logic evolving, environment mismatching etc., fixed dozens of minor report bugs for different business users, improving efficiency for business sales and services.
* Developed a report logging system by embedding tracking codes into front-end ASP pages of a complex, aged system, combined with Javascript, to provide BUs with a filter-level audit when time and technical aids are limited.

**Technical Lead**, Shanghai DS Company, Shanghai, China **Jan.2009 – Nov.2012**

*This role focused on meeting business goals with advanced technologies/methodologies, leading the R&D of new techs and tools in software production and promoting them to BUs together with sales teams.*

* Blueprinted a cutting-edge Rescue Dispatch System for the Fire Department in Shanghai and the project was admitted and funded by the government with a total investment of more than ¥11 million, 2011
* Led the requirements analysis, system structuring, software developing and implementation of the FIRST Resources Management and Dispatch System for the Joint Emergency Management and Comprehensive Urban Management Call Centre in Shanghai, with an investment of around ¥8 million, 2010
* Applied for and received over ¥10 million of funds from the government
* Applied for and received authorization for 7 patents in R&D products

**Business System Analyst / Model developer,** Tongji University, Shanghai, China **Sep.2004 – Dec.2008**

*As a Ph.D candidate, applied theories of computational science into traffic management, performed experiments to validate models with practical applications.*

* Researched and outlined a computational experiment system in traffic management, 2 of 5 published papers were collected by core journals.
* Led the research team as business system analysts, collaborated with transportation departments and research teams from other universities, proposed, modeled and developed data prediction model as APIs deployed in an experimental cloud computing environment, using 20,000 real-time GPS data, coding with Java and Oracle SQL. The project received second place for Science and Technology Prize in Shanghai.

**Software Engineer,** Shanghai DS Company, Shanghai, China **July.1998 – Aug.2004**

* Cooperated with business users on-site, developed the first automatic fire dispatch and command system for the Fire Department in Wuxi, China, coded with PowerBuilder, SQL server, oracle, crystal report. The system was highly praised by the head of the department and promoted in whole province as a model system.
* Improved the Fire Dispatch and Command System by collecting feedbacks from BUs and promoted the solution to almost half of the cities in China.

**EDUCATION**

**Ph.D. in Intelligent Traffic Systems,** Tongji University, Shanghai, China **Sept.2004 – Jul.2008**

**Master in Computer Science,** Sun Yat-sen University - Guangzhou, China **Sept.1995 – July.1998**

**BSc in Computer Engineering and Telecommunication** Tongji University, Shanghai, China **Sept.1991 – July.1995**

**SPECIALIZED TRAINING**

**Completion of Azure Databricks 3-part training series,** Databricks **Mar.2022**

**Completion of Foundation of Data Governance,** Corllibra University **Feb.2022**

**Certificate of Database Architecture, Scale, and NoSQL with Elasticsearch**  Cousera **Feb.2022**

**Certificate of Introduction to Big Data with Spark and Hadoop**, Cousera **Feb.2022**

**Certificate of Structured Query Language (SQL) using SAS,** Cousera **Feb.2021**

**Certificate of Getting Started with SAS Programming**  Cousera **Feb.2021**

**Completion of Data analysis specialization**, Cousera **July.2015**

**ABOUT MYSELF**

A proud mom of 3 daughters, a heathy lifestyle practitioner with an always developing mindset.