QIZHANG LIU
Associate Professor

An experienced and enthusiastic **educator** who is committed to train future-ready business graduates amid the rapid changing business environment. An active **practitioner** who is passionate about bringing industry experience into classroom and relating knowledge with applications. A **technology fan** who believes in adopting technology to facilitate and enhance teaching & learning. A humble **learner** who views teaching as a lifelong learning process and acts on continuous improvement in teaching.

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CAREER STATEMENT

*"To me, teaching is far beyond just knowledge transfer. In today's world, it is more important to prepare our students to be **future ready**, for which I have to work extremely hard."*

WORK EXPERIENCE

Department of Analytics & Operations, National University of Singapore
Associate Professor
08/2019 – Present
Senior Lecturer
08/2011 – 08/2019
Achievements/Tasks

- Chair of Business Analytics Specialisation Task Force, overseeing the development and delivery of BA specialisation courses.
- Member of Faculty Teaching Excellence Council.
- Member of MSBA Academic Committee.
- Chairman of Faculty Teaching Excellence Committee
- Fellow of NUS Teaching Academy
- Chair of department educator track search committee.
- Course coordinator of Descriptive Analytics with R, Advance Analytics with R, Business Analytics with R, Big Data and Marketing.
- Mentor of Ph.D. students, junior faculty and adjunct faculty.
- Courses taught cover subjects of business analytics and operations management over all levels of undergraduate, MBA, and Executive Education program.

School of Math and Science, Singapore Polytechnic
Senior Lecturer
11/2005 – 08/2011
Achievements/Tasks

- Section head overseeing the delivery of math modules to School of Business and School of Digital Media & Infocomm Technology.
- Course coordinator of several Engineering Math modules and Business Math modules.
- Adjunct Associate Professor to Dept of Decision Sciences, NUS
- Adjunct Lecturer to Technical University of Munich Singapore Campus.
- External Academic reviewer of DigiPen Institute of Technology Singapore.
- Academic committee members of two diploma courses: Engineering with Business and Business Information Technology.

AREA OF EXPERTISE

- Business Analytics
- Operations Management
- Transportation
- Discrete Optimization
- Planning & Scheduling
- System Development
- Case Teaching & Writing

CONTINUOUS DEVELOPMENT

- FreshConnect train the trainer workshop, April 14-15, Shanghai, China.

- Global Colloquium on Participant-Centered Learning, Harvard Business School, July 5 – July 11, 2015

- Case Writing Workshop, Harvard Business School, Jan 11-14, 2016

asPrecise Pte. Ltd.
Principal Solutions Consultant
08/2001 – 11/2005

Achievements/Tasks
- Project manager, system designer, and algorithm developer for several optimization-based planning and scheduling system, including Maintenance Planning System, Dynamic Resource Assignment System, Technical Document Management System that are adopted by SIA, Shenzhen Airlines and Hainan Airlines.
- Started a subsidiary of asPrecise in Shenzhen China and grew it to R&D centre of the company with 25 employees.
- Secured several million dollar projects for the company in China.

Department of Decision Sciences, National University of Singapore
Teaching Fellow
12/1999 – 08/2001

Achievements/Tasks
- Taught Management Science and Operations Management.

Kent Ridge Digital Labs
Associate Research Staff
11/1997 – 12/1999

Achievements/Tasks
- Developed Vehicle Routing optimization engine for AGV operations in PSA.
- Developed an Inventory Routing optimization engine for e-commerce logistics operations.

ACHIEVEMENTS

- Member of NUS ATEA Honour Roll
- NUS Teaching Excellence Award 2018/2019
- NUS Teaching Excellence Award 2017/2018
- NUS Teaching Excellence Award 2016/2017
- NUS Business School Outstanding Educator Award 2018/2019
- NUS Business School Teaching Excellence Award 2017/2018
- NUS Business School Teaching Excellence Award 2016/2017
- NUS Business School Teaching Excellence Award 2015/2016
- NUS Business School Outstanding Educator Award 2014/2015

SYSTEMS DEVELOPED

- https://www.nusams.com an online class participation management system
- http://nusams.3elogic.com.sg an assignment management system.
- https://www.learningANTS.com a learning management system supporting online tutoring system, used by 2000+ students in SP.
- http://www.uulearner.com an AI-based smart tutoring system for primary school level math education.

- Advanced Train Operation Management System (ATOMS) for SMRT Trains Ltd.
- Crew Scheduling and Rostering System for SMRT Circle Line.
- Train Travel Time Forecasting engine for SMRT Trains Ltd.
- Bus Arrival Time Forecasting System for SMRT Bus Operations.
- Trainload Estimation System for SMRT Planning Department.
- Fare Determination System for SMRT Revenue Office.
- Depot Management System for Ministry of Defence, Singapore

EDUCATION BACKGROUND

- National University of Singapore   02/1995~04/1998
Ph.D. in Mathematics
- University of Science & Technology of China 09/1989~07/ 1994
B.Sc. in Computational Mathematics

SHARING CONDUCTED

- Featured speech: '*From hate to love – A transition of business school students' attitude towards a quantitative module*' in Showcasing Excellence in Teaching and Learning Symposium, HK, 14 December 2018.
- Edna Chan, Fiona Fui-Hoon Nah, Qizhang Liu, Zhiwei Lu, Effect of Gamification on Intrinsic Motivation, HCI International 2018 Conference, July 2018.
- Qizhang Liu, System Facilitated Teamwork and Problem Solving Skills Assessment, ICERI2017 (10th annual International Conference of Education, Research and Innovation), Nov 2017.

SELECTED PUBLICATIONS

- Doreem Kum, Qizhang Liu, Ding Bin, "*Ronds – A pioneer in a blue ocean (A)*", accepted by Ivey, 2019
- Doreem Kum, Qizhang Liu, Ding Bin, "*Ronds – A pioneer in a blue ocean (B)*", accepted by Ivey, 2019
- Edna Chan, Fiona Fui-Hoon Nah, Qizhang Liu, Zhiwei Lu, *Effect of Gamification on Intrinsic Motivation*, HCI International 2018 Conference, July 2018
- Qizhang Liu and Mark Goh, "*TA-Q-BIN: Service Excellence and Innovation in Urban Logistics*", Springer 2015.
- Qizhang Liu and Teo Chung Piaw, "*The Journey from Physical to Digital: Technology Transformation of Wanda Group*". To appear in Wanda Group's Case Book.
- Guihua Wang, Yuanguang Zhong, Chungpiaw-Teo, Qizhang Liu, "*Flow-based Accessibility Measurement: The Place Rank Approach*", Transportation Research Part C, Volume 56, July 2015, Pages 335–345
- Jia Shu, Mabel Chou, Qizhang Liu, Chung-Piaw Teo, I-Lin Wang, "*Models for Effective Deployment and Redistribution of Bicycles within Public Bicycle-Sharing Systems*", Operation Research, Vol 61, Pages 1259-1462, Nov 2013