

# HUANG JIRONG

Data Analytics | Multi-Disciplinary

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## EXPERIENCE

Data scientist

**Data Science Department, Singapore Tourism Board**

June 2018 – Ongoing

Singapore

- Data scientist, R developer, Project Manager and Business Analyst
- Developed forecasting, data validation applications and packages for use within the organization
- Gathered user requirements from internal stakeholders for analytics applications development
- Managing analytics project in collaboration with NUS School of Computing - including budget, contractual agreement, data governance, provision of software and hardware
- Responsible of ETL workflow for compilation of national tourism statistics
- Collaborated with statisticians on national tourism statistics survey methodologies
- Built a prototype CV screener during STB's Hackathon

Data Analyst / Research Associate

**Korn Ferry Institute, Research and Analytics Arm of Korn Ferry**

Feb 2017 – May 2018

Singapore

- Research scope spans multiple disciplines: Economics, Finance, Machine-Learning(applications), Index construction, Organizational Behavior and Psychology
- Developed IP that connects human and organizational capital to business outcomes. Simulated market portfolios based on researched constructs to demonstrate better shareholder returns and business performance
- Constructed a Digital Sustainability Index for KF's digital global marketing campaign
- Twitter sentiment analysis on trending thought leadership topics
- Initiated a project to link company's proprietary databases with external data sources (through crawling) like Twitter, Financial Indicators, Company Ratings, etc.

Senior Research Analyst/Economist

**Ministry of Manpower, Economics Unit**

June 2013 – Jan 2017

Singapore

- Portfolio includes developing Singapore's labor force projections model, research in labor economics, policy impact evaluation, cost-benefit analysis, analytics etc.
- Accurately projected medium term employment growth and labour force participation rates within one-tenth of a standard deviation.
- Utilize analytics, machine learning, econometrics, and programming tools (R, Python, Stata, Eviews, VBA) in forecasting and research.
- In 1 of my projects, I analysed 4,000 unstructured documents (i.e. pdf, doc and scraping of web pages) using text analytics/information retrieval techniques such as Latent Semantic indexing, Latent Dirichlet allocation and clustering techniques; able to identify relevant concepts and produce key insights for senior management.

## PERSONAL BLOG

jirong-huang.netlify.com

*Through this blog, I share my thoughts on quantitative trading, investing, analytics and programming topics.*

*Past posts include mean reversion strategies based on Kalman Filter and also asset allocation strategies like Permanent Portfolio, etc.*

## STRENGTHS

Analytical

Good Project Management skills

Curious, Dilligent & Always willing to learn

Multi-Disciplinary

## SKILL LEVELS

R Programming

VBA

Python Programming

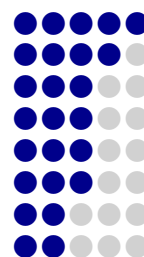
Stata

SQL

Data Visualization

C++/ Java

Website Design



## EDUCATION

M.S. in Computer Science

**Georgia Institute of Technology**

Aug 2018 – Dec 2021

Graduate Dip. in Computer Science

**University of Adelaide**

April 2016 – Jan 2018

M.S. in Statistics

**National University of Singapore**

Aug 2014 – April 2016

B.S. in Economics & Finance

**Singapore Management University**

Aug 2009 – Apr 2013

CFA Level 1

**Chartered Financial Analyst**

2012

# PUBLICATIONS

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## Articles

- J. Huang, S. Chowdhury and J. Ho (May 2018). "Candidate Compensation History Legislation: How organizations are preparing". In: *Korn Ferry Institute*.
- J. Huang, Z. W. Lee and J. Guo (May 2017). "Impact Of The Implementation Of Retirement And Re-Employment Act On Older Workers' Employment Outcomes". In: *MTI Singapore Insights*.
- J. Huang, S. Chowdhury and J. Ho (Dec 2017). "Getting more mileage from your people: improving discretionary energy boosts EBITDA and ROA". in: *Korn Ferry Institute*.
- J. Huang, S. Chowdhury and J. Ho (Apr 2018). "When your people go the extra mile: Companies high in discretionary energy perform better on the stock market". In: *Korn Ferry Institute*.

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## Conference Proceedings and Poster Presentations

- J. Huang, S. Chowdhury (Jun 2017). "Differences in managerial role preference and its impact on career progression: East versus West". In: *Poster session*. Singapore Conference on Applied Psychology.
- J. Huang, J. L. Chong (Feb 2017). "Healthcare Dynamics of An Ageing Singapore Population." In: *Poster session presented at Asia-Pacific Region System Dynamics Conference, Feb, 2017*. System Dynamics Society.
- J. Huang, S. Chowdhury and J. Ho (Aug 2018). "The Conditions for Discretionary Energy: Implications for Organizational Business Performance". In: *Conference Paper / Presentation*. Academy of Management.