

HENRY UNIVERSES, PhD, CFA, CAIA, PRM, ERP <https://www.linkedin.com/in/henryuniverses/>



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20+ years of success in chair and management up to \$40 billions - especially for AI-based business growth. Highly skilled at developing engineering teams, e.g. machine learning through in-depth fundamental analysis and strong financial sense.

MANAGEMENT Direct, Science, Motivation, Involvement and Leadership

ENGINEERING SKILLS

- Data analytics with fundamental, statistical, stochastic modeling and machine learning
- Pricing and valuation models for actuarial and financial products
- Programming: C/C++, Java, Perl, Matlab, Maple, Excel/VBA, Python, CUDA, Spark, TensorFlow
- Database: MS SQL, MySQL, HDFS, Hive, Impala
- Statistics software: R, Eviews, SAS, SPSS
- Experience in Cloudera, AWS, Azure

CERTIFICATIONS

- Chartered Financial Analyst (CFA)
- Chartered Alternative Investment Analyst (CAIA)
- Professional Risk Managers' International Association (PRM)
- Energy Risk Professional (ERP)
- Japan Information-Technology Engineer Skill Standards
- Society of Actuaries (SOA): Exam P, FM, MFE, C, VEE and FSA Life modules
- Casualty Actuarial Society (CAS): Exam ST

WORKING EXPERIENCE

Chair of Membership

07/2017 – current

CFA Society Saskatchewan - Saskatchewan, Canada

- Managing the society's growth and retention of members and volunteers.

Chairman & CEO

1999 – current

QT-Group

Global

QT-Data Inc & QT-Hospitality Inc & QT-Analytics LLC - Saskatchewan & British Columbia & California 02/2017–

- Specializing in data by combining state-of-the-art ML/AI algorithms, blockchains/distributed ledger technology and software solutions with 500+ engineers.

- Long-term commitment with premier professional services to provide a comprehensive data-driven business solution.

Data Scientist

02/2016 – 01/2017

Tenpoint7 - Greater Seattle Area, United States

- Accelerating client business via data-driven insights with both scientific and practical AIs: rethinking hospitality management.

- *Leading* a team of 7 data scientists and engineers for R&D projects on Spark and TensorFlow in price optimization and fraud detection.

Co-founder & Head of Quantitative and Computational Finance Lab

07/2010 – 01/2017

John von Neumann Institute – HoChiMinh, Vietnam

- Chair of *data-driven business development* and being *chief technical officer* for most of JVN industrial projects on Cloudera 2.5 about: human resource with Vsource, supply chain with Vingroup, credit scoring with BIDV, stock loan margin management with HSC, demographic with BlueSeed, android and iOS app-based retail analysis with and AWS based big data integration with FCV, and fraud detection with VGN Game.

- *Forecasting* oil/gas/electricity price and solar power supply by machine learning techniques. Predicting yield curve for credit risk management. Building an optimal control scheme to deal with liquidity risk by derivatives.

- Teaching international graduate courses: Quantitative Finance and Machine Learning.

- *Managing* 30+ PhD, PhD student and master (exchange) student researchers working on industrial contracts and R&D financial projects with *entrepreneurial* spirit.

- *Achievement*: Increasing the number of researchers from 5 to 30+ in two years.

Visiting Researcher

09/2014 – 9/2015

Buskerud and Vestfold University College – Vestfold, Norway

- Calibrating ultrasound data by MLE for building up a numerical simulation tool with graphical interface in MATLAB that can model and optimize the performance of transducers in health products.

Quantitative Investment Manager**10/2009 - 01/2014****VietFund Management (VFM) – HoChiMinh, Vietnam**

- *Managing* 5 researchers on applying quantitative, statistical and machine learning methods for analyzing Vietnam security data to build innovative trading strategies adjusted by risk acceptant level.
- *Achievement:* Creating the first quantitative product and ETF product in the local market: VFMVFA, E1VFN30. *Raising a total* 500+ billions VND.

Professor**07/2004 – 12/2012****Ton Duc Thang University & Broward College & University of Science – HoChiMinh, Vietnam**

- *Teaching* undergraduate courses in Monetary and Financial Theory and Quantitative Finance. Supervising undergraduate theses and conducting research in applied mathematics and computer sciences.
- *Chair* of mathematics curriculum, teaching business statistics, financial statistics and applied linear algebra.
- *Leading* 10+ researchers on Information Science & Applied Mathematics.
- *Chair* of mathematics curriculum for exchange programs with Saxion University in Netherlands and teaching undergraduate courses: Numerical Analysis, Software Engineering and Statistics.

Team leader on IT projects**12/2002 - 06/2004****Silicon Design Solutions – HoChiMinh, Vietnam**

- *Leading* 5+ software engineers for upgrading memory compiler software, automatically generating test patterns for Texas Instrument library, and some simulation projects using VHDL and Verilog.

VOLUNTEER EXPERIENCE

- 2018 – current** **Data Ambassador, *Data for Good***
- 2017 - current** **Member of Board of Directors, *CFA Society Saskatchewan***
- 2015 - 2016** **Grader and mentor, *CFA Institute***

EDUCATION

- 2010 - 2010** **Postdoctoral researcher: *Machine learning methods in finance***
Japan Advanced Institute of Science and Technology (JAIST)- Kanazawa, Japan
- 2007 - 2009** **PhD: *Robustness of dynamical systems***
Vietnam National University – HoChiMinh, Vietnam
- 2005 - 2008** **Master of Computer Science: *Sparse principal component analysis***
- 2004 - 2007** **Master of Mathematical Science: *Analysis***
- 1999 - 2003** **Bachelor of Science: *Mathematics and Computing Science***

RESEARCH

- 5+** international and national research projects: Principal & member.
- 30+** publications in control optimization, machine learning and financial engineering.
https://scholar.google.com.vn/citations?hl=en&view_op=list_works&qmla=AJsN-F4KI2rAioqUCSzATsXktjuW8wYchQJ4s-gaxPNGRBjBs2GXcZxiluYG6cPY6lwrlrzKeVwjlt_XzVEhYkH0tqpiHUCQ&user=FtCo0vcAAAAJ

LANGUAGES**English:** Fluent. **Norwegian:** Limited Basic. **Vietnamese:** Fluent.**HONORS**

- Visiting fellowship of Japan Advanced Institute of Science and Technology 2010.
- IEEE Seoul Section & Japan Council Scholarship 2009.
- Best Student-Paper Award of IEEE Vietnam Section in Computer Science 2008.
- Vietnam Education Foundation (VEF), and the U.S. National Science Foundation (NSF) Scholarship (for participating in Digital Signal Processing Summer School/Seminar 2008)
- Third honor of National Mathematics Competition 1999.
- Bronze medal in South Vietnam's Mathematics Olympic 1998.

HOBBIES football, sepak takraw, table tennis, tennis, badminton and Taekwondo; guitar and bamboo flute.