

CAO DANNI

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Education

Weill Cornell Medical College of Cornell University, New York, US 09/2015-07/2019

- M.S. Candidate in Biostatistics and Data Science (To be expected in 07/2020)
- Core Courses: Biostatistics, Data Science, Study Design, etc.

Southwestern University of Finance and Economics, Chengdu, China 09/2015-07/2019

- B.S. in Statistics
- GPA: 3.5/5.0
- Core Courses: Mathematical Analysis, Real Variable Function Analysis, Functional Analysis, Mathematical Statistics, Stochastic Process, Statistical Programming, Regression Analysis, etc.

University of Waterloo, Waterloo, Canada 08/2018-05/2019

- Exchange Study Program in Statistics
- Courses in Progress: Applied Probability, Generalized Linear Models and their Applications, Forecasting, Applied Real Analysis
- Courses Planned: Computational Inference, Statistical Learning – Classification, Statistical Methods for Process Improvements, Estimation and Hypothesis Testing, Mathematics of Financial Markets

Publications

- Submitted: ***A Coarse-to-Fine Framework For Music Generation***, Liu, Bin; Ma, Dan; Cao, Danni, *ieeicassp2019* -<https://2019.ieeicassp.org>, 02/2019

Research Projects

Data Analyst, Two-Sample High-Dimensional Precision Matrix Testing 11/2018-11/2019

- Funded by Ministry of Education of the People's Republic of China
- Raised a new testing method based on threshold value, filtering noises and maintaining testing signals
- Structured testing statistics and carried out the testing operations based on filtered signal

Research Assistant, Stack_Chord_Gan (Generated Music Based on GANs -- Generative Adversarial Networks)

04/2018-12/2018

- Studied on relevant papers about generated music and wrote literature review
- Made innovation on the basis of previous research, found the representing methods and generative paths of chord
- Built models to make rational analysis upon Recurrent Neural Nets and Convolution Neural Nets
- Made the related charts, sorted out data, and made comparative analysis
- Provided extra technical supports in analyzing the procedures of generated music, matching melodies and chords, analyzing the harmony degree, and graphical representation of melodies

Research Assistant, Research Program of Prof. DengWei

12/2017-present

- Studied relative papers and reported on the meeting
- Studied TensorFlow
- Studied the documentation of the Generative Adversarial Networks and knew relative applications

Member, The 14th Marketing Planning Competition of SWUFE

03/2017-06/2017

- Wrote the planning
- Considered and wrote the publicity copy

Team Leader, Mathematical Contest In Modeling/Interdisciplinary Contest In Modeling

02/2017

- Organized the schedule of the contest
- Established the model of time series and predicted
- Wrote the paper

Internships

Intern, Deloitte Touche Tohmatsu Chengdu Branch, Chengdu, China

01/2018-02/2018

- Took part in the project of conducting the complete the process and system of the investment and management of the Sichuan Traffic Investment Group in Deloitte
- Consolidated the cases of permission setting in industries including expressway, estate, finance and construction and assisted to establish the relative items in system
- Consolidated the cases of the failures in equity investment and real estate investment and analyzed the reasons
- Collected the investment arrangement of “The 13th Five-year Plan” of Sichuan Traffic Investment Group and completed the descriptive statistical analysis
- Interviewed the management layers of the first unit, second unit and third unit, gathered the opinions and consolidated the interview records
- Collected the items of the “Green Channel” in investment and assisted to establish the relative items

Intern, Statistics Department of Qinghai Province, Qinghai, China

08/2017

- Learnt about the systems of national accounts
- Filled out the counting form of culture industry
- Checked the form of the basic situation of non-public ownership economy

Intern, CITIC Bank Xining Branch, Qinghai, China

07/2017

- Legalized VAT invoice and verified the input taxes
- Assisted the leader to make manual adjustment of the Risk Weighted Asset
- Arranged the data of the expense of the half year
- Followed the implementation of the budget from 01/2017 to 06/2017

Extracurricular Activities

- Volunteer, “Tour of Qinghai” Competition 07/2019
- SWUFE Statistics Class 2015 Class Commissary in charge of Organization 09/2015-06/2019
- Volunteer, XinHang Social Service Centre, Chengdu 10/2016-12/2016
- SWUFE Student Union of Institute of Statistics Volunteer 09/2016
- Volunteer, Nursing Home Group Birthday Party hosted by SWUFE School of Statistics Student Union 09/2016
- Summer Program Member, Studies on the Development and Civilization of Tangka 08/2016- 09/2016
- Summer Program Member, Warm-hearted Team of 520 07/2016- 08/2016
- SWUFE Students’ Union Member 09/2015- 01/2016

Awards & Honors

- Second-Class SWUFE Merit-Based Scholarship in 2018
- SWUFE Excellent League Member of the Communist Youth League in 2017
- First-Class SWUFE Merit-Based Scholarship in 2017
- SWUFE Triple-A Students in 2016-2017
- SWUFE “Outstanding Achievements” of Summer Program in 2016
- SWUFE Social Practice Scholarship in 2016
- SWUFE Social Practice Scholarship in 2015

Qualifications & Skills

- Economical skill: Securities Qualification Certificate
- TOEFL: iBT 101 (R:27, L:23, S:24, W:27) 03/2018
- GRE: Verbal 142, Quantitative 168, Analytical Writing: 3.5 11/2018
- Computer Skills: R, Microsoft Word, Excel, PowerPoint, Python, Matlab