Fiona Anting Tan

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Introduction

- Second-year Ph.D. student at the Institute of Data Science, National University of Singapore, and a recipient of the ISEP-IDS Scholarship
- My research interests span across natural language processing and causality, with a focus on extracting causal relationships from text to enrich existing knowledge bases.
- Passionate about applying my machine learning and deep learning skills onto real-world problems
- I am a firm-believer in empowering women in tech. In my free time, I mentor at TechLadies and actively participate in communities like WomenWhoCode and SheLovesData.

Education

2020 – Present (Expected 12/2024)	**Ph.D. Candidate**	Institute of Data Science, National University of Singapore, SG ▪ CAP Score: 4.88/5.0 ▪ Advisor: Ng See-Kiong ▪ Highlighted modules: Neural Networks and Deep Learning II, Pattern Recognition, Multivariate Data Analysis
2014 – 2017	**B.Sc. in Econometrics and Mathematical Economics**	London School of Economics and Political Science, UK ▪ First Class Honours with Econometrics dissertation titled 'Does competition affect workers' subjective wellbeing?' ▪ Advisor: Guy Michaels

Academic Activities

2021 – Present	**Organiser**	5th Workshop on Challenges and Applications of Automated Extraction of Socio-political Events from Text ▪ Proposed and currently organizing an Event-Causality Shared Task based on social-political news ▪ Tasks include construction of annotation guidelines, curating annotations, creating baseline models and evaluation scripts, and holding the shared task
2021	**Teaching Assistant**	BT5126 Hands-on with Business Analytics (Post-grad level)
2016	**Part-time Research Assistant**	Harvard Economics Department, US ▪ Data collection for a macro-finance economic history research project ▪ Advisor: Chenzi Xu

Academic Honours and Awards

2021	1st place in FinCausal Shared Task on cause-and-effect span detection in financial news [Prize money of USD $650]
2021	1st and 2nd place in CASE Shared Task on multilingual event coreference resolution in socio-political news
2020	Finalist (Top 7 out of 60 submissions) in AWS x WomenWhoCode Machine Learning Hackathon to battle COVID-19
2020 – 2024	Integrative Sciences and Engineering Programme (ISEP) and Institute of Data Science (IDS) Scholarship [Full Ph.D. scholarship with annual stipend of SGD $43,200]
2015	Singapore-Industry Mid-term Overseas Scholarship [Partial undergraduate scholarship with lump sum stipend of SGD $60,000]

Academic Publications

Fiona Anting Tan, Ali Hürriyetoǧlu, Tommaso Caselli, Nelleke Oostdijk, Tadashi Nomoto, Hansi Hettiarachchi, Iqra Ameer, Onur Uca, Farhana Ferdousi Liza, and Tiancheng Hu. 2022. The Causal News Corpus: Annotating Causal Relations in Event Sentences from News. In *Proceedings of the 13th Language Resources and Evaluation Conference*, Marseille, France. European Language Resources Association.

Fiona Anting Tan, Devamanyu Hazarika, See-Kiong Ng, Soujanya Poria, and Roger Zimmermann. 2021. Causal Augmentation for Causal Sentence Classification. In *Proceedings of the First Workshop on Causal Inference and NLP*, pages 1–20, Punta Cana, Dominican Republic. Association for Computational Linguistics.

Fiona Anting Tan and See-Kiong Ng. 2021. NUS-IDS at FinCausal 2021: Dependency Tree in Graph Neural Network for Better Cause-Effect Span Detection. In *Proceedings of the 3rd Financial Narrative Processing Workshop*, pages 37–43, Lancaster, United Kingdom. Association for Computational Linguistics.

Fiona Anting Tan, Sujatha Das Gollapalli, and See-Kiong Ng. 2021. NUS-IDS at CASE 2021 Task 1: Improving Multilingual Event Sentence Coreference Identification With Linguistic Information. In *Proceedings of the 4th Workshop on Challenges and Applications of Automated Extraction of Socio-political Events from Text (CASE 2021)*, pages 105–112, Online. Association for Computational Linguistics.

Professional Experience

2021 – Present	**Consultant**	Factorem, SG	

- Built object recognition solutions based on 3D designs for projects including product similarity scoring, product price forecasting, and supplier to product matching
- Served as an advisor for interns working on data science projects

2020   **Mentor** | TechLadies

- 12-week program to provide women with personal career guidance from experienced industry practitioners as they grow their career in technology

2018 – 2020   **Data Science Analyst** | Charles & Keith Group Data Science Department, SG/CN

- Product demand forecasting: Designed an end-to-end SKU sold quantity forecasting Python pipeline using machine learning models on product features
- Stock movement automation: Automating processes onto dot net framework, saving over 1040 man-hours; revised and optimised business logic formulas to reduce stock out and over stock situations
- Created analytics tools for topics across organization such as: Underlying sales factors, reseller impact, omnichannel cannibalisation, global product preference
- Upskilling colleagues with Python know-how: Initiated and held a 3-month 'Introduction to Python Workshop' for over 20 staff; Guided participants on their own project to transform their own work processes into code
- Overseas secondment (Shanghai): Unifying the processes and operating model between China and HQ on systems including stock monitoring, forecasting and replenishment systems
- Workshops attended: INSEAD Analytics & Machine Learning for Superior Business Performance, Google Machine Learning Bootcamp

2017 – 2018   **Management Associate** | Charles & Keith Group Inventory Department, SG

- Rotated across International, Singapore and E-commerce Inventory Departments; Managed Inventory for major, new, and sunset markets (Singapore, Malaysia, Malta, Libya, and Panama)
- Provided automation logic for B2B portals, BI, Qlikview and Qliksense reports
- Recruited, trained, and assessed new employees in the department

Other Skills and Interests

- Coding languages: Python (Advanced), R (Advanced), SQL (Intermediate), Hive (Intermediate), Stata (Intermediate), Microsoft Excel and VBA (Intermediate)
- Hobbies: Netball, punch-needling
- Societies and Leadership Roles: Vice President of Special Events for LSESU Economics Society (2015 – 2016)