Fiona Anting Tan

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Introduction

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

Education

2020 - Present (Expected 12/2024)	 Ph.D. Student Institute of Data Science, National University of Singapore, SG CAP Score: 4.88/5.0 Advisor: Ng See-Kiong Relevant modules: Applied Econometrics II, 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 Honors with Econometrics dissertation titled 'Does competition affect workers' subjective wellbeing?' Advisor: Guy Michaels

Academic Activities

2021 - Present	Organizer Challenges and Applications of Automated Extraction of Socio-political Events from Text Proposed and organized the Event-Causality Shared Task for the 5 th Workshop @ EMNLP (2022) and 6 th Workshop (2023)
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 Honors and Awards

2021	1st place in FinCausal Shared Task on cause-and-effect span detection in financial news
	[Prize money of USD \$650]
2021	1 st and 2 nd place in CASE Shared Task on multilingual event coreference resolution in socio- political news
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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, Xinyu Zuo, and See-Kiong Ng. 2023. UniCausal: Unified benchmark and model for causal text mining. [Manuscript submitted for publication.]

Fiona Anting Tan, Hansi Hettiarachchi, Ali Hürriyetoğlu, Nelleke Oostdijk, Tommaso Caselli, Farhana Ferdousi Liza, and Onur Uca. 2023. Causal News Corpus Version 2: Annotating Cause, Effect and Signal Spans. [Manuscript submitted for publication.]

Fiona Anting Tan, Hansi Hettiarachchi, Ali Hürriyetoğlu, Tommaso Caselli, Onur Uca, Farhana Ferdousi Liza, and Nelleke Oostdijk. 2022. Event Causality Identification with Causal News Corpus - Shared Task 3, CASE 2022. In *Proceedings of the 5th Workshop on Challenges and Applications of Automated Extraction of Socio-political Events from Text (CASE)*, pages 195–208, Abu Dhabi, United Arab Emirates (Hybrid). Association for Computational Linguistics.

Fiona Anting Tan, Ali Hürriyetoğlu, 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 Thirteenth Language Resources and Evaluation Conference*, pages 2298–2310, Marseille, France. European Language Resources Association.

Fiona Anting Tan, Devamanyu Hazarika, See-Kiong Ng, Soujanya Poria, and Roger Zimmermann. 2021b. 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. 2021a. 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

2022 - Present Research Attachment | Panasonic Industrial Devices Technology Centre, SG

Constructing knowledge graph from electronics and supply chain news

2022 - Present Research Attachment | Changi Airport Group, SG

Automating customer feedback categorization and topic modelling

2021 - Present Consultant | Factorem, SG

- Factorem is a tech start-up that is revolutionizing the manufacturing space in Southeast Asia using Al-enabled pricing and supplier-partner matching systems.
- Built object recognition and computer vision solutions based on 3D designs and images 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

- Designed a product demand forecasting pipeline using ML on product features
- Automated stock movement processes onto dot net framework, saving over 1040 man-hours; revised and optimized business logic formulas to reduce stock out and over stock situations

- Created analytical tools and reports on various topics, such as: Underlying sales factors, reseller impact, omnichannel cannibalization, global product preference
- Upskilled 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 to Shanghai: Unifying the processes and operating model between China and HQ on systems including stock monitoring, forecasting and replenishment systems

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)
- Workshops attended: INSEAD Analytics & Machine Learning for Superior Business Performance, Google Machine Learning Bootcamp
- Societies and Leadership Roles: Volunteering at THK Home for Disabled @ Eunos (2008 Present), Vice President of Special Events for LSESU Economics Society (2015 – 2016)
- Hobbies: Netball, Punch-needling