Fiona Anting Tan

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Introduction

- Fourth-year Ph.D. student at the Institute of Data Science, National University of Singapore, and a recipient of the ISEP-IDS Scholarship
- Research interests span across natural language processing and causality, with a focus on extracting causal relationships from text for real world applications
- Firm-believer in empowering women in tech. I mentored at TechLadies and actively participate in communities like WomenWhoCode.

Education

2020/08 – Present

Ph.D. Candidate | Institute of Data Science, National University of Singapore, SG
- CAP Score: 4.88/5.0
- Advisor: Ng See-Kiong

2014/09 – 2017/07

B.Sc. in Econometrics and Mathematical Economics | London School of Economics and Political Science, UK
- First Class Honors with Econometrics dissertation
- Advisor: Guy Michaels

Professional Experience

2023/07 – 2023/10

Decision Science Manager Intern | American Express, DS CoE, SG
- Designed algorithms for fraud and scam detection using natural language processing, data science, and machine learning techniques

2023/06 – 2023/09

Quantitative Research Mentee | J.P. Morgan, APAC
- Weekly one-to-one mentoring sessions with QRs and senior leaders
- Constructed rates curve based on multiple derivatives from scratch

2022/11 – 2023/08

Research Attachment | Panasonic Industrial Devices Technology Centre, SG
- Constructed causal knowledge graph from news

2022/07 – 2023/03

Research Attachment | Changi Airport Group, SG
- Trained and deployed NLP model for automated customer feedback categorization to help customer service staff
- Conducted topic modelling on airport operation logs

2020/05 – 2020/12

Data Science Mentor | TechLadies, APAC
- Provided mentee with career guidance to excel in her tech career

2017/08 – 2020/08

Data Science Analyst / Management Associate | Charles & Keith Group, SG/CN
- Implemented inventory automation, optimization and forecasting models to reduce man-hours and improve stock health in stores
- Conducted ad-hoc analyses for: Underlying sales factors, reseller impact, omnichannel cannibalization, global product preference
- Overseas secondment to Shanghai to unify processes between HQs

Academic Experience

2023

Program Committee | LREC-COLING 2024

2022 – Present	**Reviewer**	Various venues
	▪ Conferences: COLING 2022, IJCAI 2023
	▪ Journals: JBCB 2023, IPM 2023
2021 – Present	**Shared Task Organizer**	CASE Workshop @ EMNLP (2022) and RANLP (2023)
	▪ Proposed and organized the Event-Causality Shared Task for ~50 teams
2021	**Teaching Assistant**	BT5126 Hands-on with Business Analytics (Post-grads)

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]
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**, H. Hettiarachchi, A. Hürriyetoglu, N. Oostdijk, T. Caselli, T. Nomoto, O. Uca, F.F. Liza, and S.K. Ng. *RECESS: Resource for extracting cause, effect, and signal spans.* IJCNLP-AACL 2023.
- **Fiona Anting Tan** and See-Kiong Ng. 2023. *Economics assistant for robustness checks (EconARC): Identifying confounders from causal knowledge graphs.* ISWC 2023.
- **Fiona Anting Tan**, H. Hettiarachchi, A. Hürriyetoglu, N. Oostdijk, O. Uca, S. Thapa, and F.F. Liza. *Event Causality Identification with Causal News Corpus - Shared Task 3.* CASE @ RANLP 2023.
- **Fiona Anting Tan**, Debdeep Paul, Sahim Yamaura, Miura Koji, and See-Kiong Ng. *Constructing and Interpreting Causal Knowledge Graphs from News.* AAAI-SS 2023.
- **Fiona Anting Tan**, Xinyu Zuo, and See-Kiong Ng. *UniCausal: Unified benchmark and repository for causal text mining.* DAWAK 2023.
- K. Dhole, V. Gangal, S. Gehrmann, A. Gupta, …, **Fiona Anting Tan**, … (many authors). *NL-Augmenter: A Framework for Task-Sensitive Natural Language Augmentation.* NELTJ 2023.
- **Fiona Anting Tan**, H. Hettiarachchi, A. Hürriyetoglu, T. Caselli, O. Uca, F.F. Liza, and N. Oostdijk. *Event Causality Identification with Causal News Corpus - Shared Task 3.* CASE @ EMNLP 2022.
- **Fiona Anting Tan**, A. Hürriyetoğlu, T. Caselli, N. Oostdijk, T. Nomoto, H. Hettiarachchi, I. Ameer, O. Uca, F.F. Liza, and T. Hu. *The Causal News Corpus: Annotating Causal Relations in Event Sentences from News.* LREC 2022.
- **Fiona Anting Tan**, D. Hazarika, S.K. Ng, S. Poria, and R. Zimmermann. *Causal Augmentation for Causal Sentence Classification.* CI+NLP @ EMNLP 2021.
- **Fiona Anting Tan** and See-Kiong Ng. *NUS-IDS at FinCausal 2021: Dependency Tree in Graph Neural Network for Better Cause-Effect Span Detection.* FNP 2021.

Other Skills and Interests

- Coding languages: Python (Advanced), R (Advanced), SQL (Intermediate), Hive (Intermediate), Stata (Intermediate), Microsoft Excel and VBA (Intermediate)
- 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: Traveling, Netball