Yahang Qi

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EDUCATION

Master of Science in Computational Science and Engineering

Eidgenössische Technische Hochschule Zürich, Switzerland   09/2023 – 07/2025 Anticipated

- Grade: 5.5/6.0
- Causality; Computational Statistics; High dimensional Statistics

Bachelor of Engineering in Mechanical Engineering

Tongji University, Shanghai, China   09/ 2018 – 07/2023

- Grade: 91.69/100 (Ranking 3rd out of 163)
- Applied mathematics; PDE in Engineering; Finite element method; Programming

PUBLICATON

Implicit Personalization in Language Models: A Systematic Study   *ACL*, 2024

- Uses structural causal model (SCM) to model implicit personalization (IP), a phenomenon of language models inferring user's background from the input and tailoring the response based on this inference
- The concept of IP is transformed into a problem of causal effect using formulated SCM and is further studied using hypothesis testing method
- Introduces a novel approach, *indirect intervention*, to estimate the causal effects of mediator variables that are not amenable to direct manipulation

AWARDS

Academic Scholarship, Tongji University, Shanghai, China   2018-2023

- Awarded annually from 2018 to 2023 for demonstrating outstanding academic performance throughout Bachelor's studies

WORK EXPERIENCE

Autonomous Driving Algorithm Intern, Shanghai Volkswagen Motor   04/2022 – 08/2022

- **Model Quantization.** Built a pipeline to quantize large-scale neural network models for further deployment with TensorRT, thereby reducing memory usage by 50% and increasing inference speed by 25% while preserving model performance
- **Data Visualization.** Developed a Python toolkit to visualize 2D and 3D object detection results
- **Large-Scale Model Training and Deployment.** Trained large monocular 3D object detection models with GPUs and deployed the quantized model in an autonomous driving system

LANGUAGE SKILLS

Language: Chinese (Native); English (Proficient); German (Fluent)