Terry **Zhuo**

NLP RESEARCHER · PROGRAMMER

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"Be the change that you want to see in the world."

Summary

Current Computer Science Undergraduate at UNSW. Experience in digital signal processing, quantum computing and natural language processing. Research interests lie in question answering, machine reading comprehension and language model. Super nerd who loves Python, C++ and Linux and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Work Experience

Monash Univeristy　　　　　　　　　　　　　　　　　　　　　　　　　　*Melbourne, Victoria*
RESEARCH ASSISTANT, SUPERVISED BY Reza Haffari　　　　　　　　　　　　　　*May. 2020 - Present*
- Working closely with PhD students in the team on several NLP projects.
- Proposed a zero-shot question answering model that improves over the state-of-the-art QA models.
- Co-authored a top conference paper in COLING 2020.

UNSW Sydney　　　　　　　　　　　　　　　　　　　　　　　　　　　*Sydney, Australia*
CASUAL ACADEMIC　　　　　　　　　　　　　　　　　　　　　　　　　　*Feb. 2020 - Present*
- Teaching in ENGG1000: Introduction to Engineering Design and Innovation
- Teaching in ELEC2134: Circuits and Signals

Quantum Computation and Communication Technology (CQC2T), UNSW Sydney　*Sydney, Australia*
RESEARCH STUDENT, SUPERVISED BY Arne Laucht　　　　　　　　　　　　　　　*Nov. 2019 - Present*
- Proposed a research project of digitizing the lock-in amplifier in MATLAB.
- Proposed the implementation structure of the digitizing lock-in amplifier in the team's quantum computing system.

Microsoft　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Shanghai, China*
SOFTWARE ENGINEERING INTERN　　　　　　　　　　　　　　　　　　　　*Dec. 2019 - Feb. 2020*
- Applied Azure SQL DB/DW, Azure Data Lake Storage, Azure Data Lake Analytics, Azure Machine Learning, Stream Analytics, Azure Data Factory, or Cosmos DB to companies' data.
- Designed cloud architecture for top tier companies.
- Strongly recommended by Michael Wang .

Project

Off-world Robotics Project, Vertically Integrated Project　　　　　　　　　　　*UNSW Sydney*
RESEARCHER　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Feb. 2020 - Present*
- Determineing the constraints of our embedded systems, sourcing embedded boards for use on the prototype rovers, and testing them with an RTOS or scheduling architecture.
- Researching existing approaches to the SLAM problem, comparing them, and proposing a SLAM system for use on the rovers.

Py Googletrans　　　　　　　　　　　　　　　　　　　　　　　　　　*Github*
CONTRIBUTOR, COLLABORATOR　　　　　　　　　　　　　　　　　　　　*May. 2020 - Present*
- **Star: 1.8k**
- **Fork: 371**
- Googletrans: Free and Unlimited Google translate API for Python. Translates totally free of charge.

Sphinx Markdown Builder　　　　　　　　　　　　　　　　　　　　　*Github*
CONTRIBUTOR　　　　　　　　　　　　　　　　　　　　　　　　　　　*May. 2020 - Present*
- **Star: 77**
- **Fork: 25**
- Sphinx builder that outputs markdown files.

Virtual FPGA Board　　　　　　　　　　　　　　　　　　　　　　　　*Github*
CREATOR　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*March. 2020 - Present*
- FPGA Board Visualization for XILINX ISE projects.

Education

UNSW Sydney (University of New South Wales)   *Sydney, Australia*

B.S. IN COMPUTER SCIENCE AND ENGINEERING (MINOR IN ELECTRICAL ENGINEERING)   *Jul. 2018 - May. 2021(Expected)*

- Weighed Average Mark 87.2, Top 2% in Faculty of Engineering

Extracurricular Activity

BLUESAT   *UNSW Sydney*

POWER ENGINEER   *Oct. 2019 - Present*

- Working on the satellite project which will be launched in 2021-2022.
- Supervising in MPPT board testing and designing.

ELSOC UNSW   *UNSW Sydney*

ACADEMIC TUTOR, SUB-COMMITTEE MEMBER   *May. 2019 - Present*

- Ran crashcourses (lectures) where more than twenty students on average attended.

Publication

Paper Track: *Question Answering, Textual Inference, Language Understanding*   *Monash University*

SECOND AUTHOR   *June. 2020*

- Under review in COLING 2020

Honors & Awards

2019   **Highly Commended Undergraduate**, Dean's Honours List | UNSW Engineering   *Sydney, Australia*

2019   **Taste of Research Winner**, Taste of Research Scholarships | UNSW Engineering   *Sydney, Australia*

Service

2020   **Volunteer (Zoom Host)**, WiNLP 2020   *Seattle, WA*