

# 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, language model and vision-language grounding. 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

### Harrison.ai

Sydney, Australia

APPLIED AI SCIENTIST INTERN, SUPERVISED BY **Ben Hachey**

Dec. 2020 - Present

- Develop AI algorithms, prototypes and solutions for healthcare artificial intelligence, with a focus on modern machine learning.
- Optimise approaches for accuracy, deployment and rapid experimentation.
- Follow agile methodology and software engineering best practice, focusing on test-driven development, rapid prototyping, validation and iteration.
- Provide regular technical and other progress reports relevant to projects, and ensure all progression is properly documented.
- Engage with the literature to benchmark against and adopt state-of-the-art techniques and algorithms.

### Data61, CSIRO

Remote

RESEARCH STUDENT, SUPERVISED BY **Conrad Sanderson**

Dec. 2020 - Present

- Working closely with the vacation scholar on PyArma, an API library of **Armadillo** in Python.
- PyArma will be open source.

### Monash Univeristy

Remote

RESEARCH ASSISTANT, SUPERVISED BY **Reza Haffari** AND **Lizhen Qu**

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 long 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**. The only undergraduate in the team while remains are PhDs.

### Quantum Computation and Communication Technology (CQC2T), UNSW Sydney

Sydney, Australia

RESEARCH STUDENT, SUPERVISED BY **Arne Laucht**

Nov. 2019 - Sep. 2020

- 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

- Determining 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

CONTRIBUTOR, COLLABORATOR

- **Star: 2.0k**
- **Fork: 408**
- Googletrans: Free and Unlimited Google translate API for Python. Translates totally free of charge.

[Github](#)

May. 2020 - Present

## Sphinx Markdown Builder

CONTRIBUTOR

- **Star: 79**
- **Fork: 28**
- Sphinx builder that outputs markdown files.

[Github](#)

May. 2020 - Present

## Education

### UNSW Sydney (University of New South Wales)

B.S. IN COMPUTER SCIENCE AND ENGINEERING (MINOR IN ELECTRICAL ENGINEERING)

- Weighed Average Mark 88.2

[Sydney, Australia](#)

Jul. 2018 - Sep. 2021(Expected)

## Extracurricular Activity

### BLUESAT

POWER ENGINEER

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

[UNSW Sydney](#)

Oct. 2019 - Present

### ELSOC UNSW

ACADEMIC TUTOR, SUB-COMMITTEE MEMBER

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

[UNSW Sydney](#)

May. 2019 - Present

## Publication

### COSMO: Conditional SEQ2SEQ-based Mixture Model for Zero-Shot Commonsense Question Answering

FARHAD MOGHIMIFAR, LIZHEN QU, **YUE ZHUO**, MAHSA BAKTASHMOTLAGH AND GHOLAMREZA HAFFARI

[COLING 2020](#)

## Honors & Awards

- |      |   |                        |
|------|---|------------------------|
| 2019 | <b>Dean's Honours List (Highly Commended)</b> , Top 2% of UNSW Engineering              | <a href="#">Sydney</a> |
| 2019 | <b>Taste of Research scholarships Recipient (A\$5,000)</b> , TOP 12 of UNSW Engineering | <a href="#">Sydney</a> |
| 2020 | <b>Taste of Research scholarships Recipient (A\$6,000)</b> , TOP 43 of UNSW Engineering | <a href="#">Sydney</a> |

## Service

- |      |                                 |                             |
|------|---------------------------------|-----------------------------|
| 2020 | <b>Volunteer</b> , EMNLP 2020   | <a href="#">Online</a>      |
| 2020 | <b>Volunteer</b> , NeurIPS 2020 | <a href="#">Online</a>      |
| 2020 | <b>Volunteer</b> , WiNLP 2020   | <a href="#">Seattle, WA</a> |