GIULIO ZHOU

Speech & NLP Researcher

Passionate about language and speech technologies. Currently interested in the relation between prosody and meaning, aiming to enhance Speech Translation and Understanding systems.

CONTACT

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SKILLS

Programming Languages
Python, C, C++, MATLAB, Java, JavaScript, HTML, CSS, SQL

Libraries, and Frameworks
PyTorch, Keras, Tensorflow, Chainer, scikit-learn, NLTK, AngularJs, Flask

Languages
Italian (L1), English (C1), French (B1) Chinese (A2), Korean (A1)

HOBBIES

Violin   Piano   Games

Watercolour   Tufting

EDUCATION

PhD in NLP with Integrated Studies
University of Edinburgh -
2022 - Present
expected 2026

Teaching : Lab Demonstrator for "Natural Language Understanding, Generation, and Machine Translation" (Sem2 2023 / Sem2 2024)

MSc in Artificial Intelligence
University of Edinburgh
2017- 2018

Classification: with Distinction

Featured Courses : Accelerated NLP, Machine Translation, Natural Language Understanding, Machine Learning and Pattern Recognition, Reinforcement Learning

BS in Computer Science
University of Bologna
2014- 2017

Final Mark : 110/110 cum Laude

Featured Courses: Linear Algebra, Probability Calculus and Statistics, Algorithms and Data Structures, Programming Language Technologies, Optimisation, Theoretical Computer Science, Software Engineering

WORK EXPERIENCE

Applied Scientist Intern
Amazon (UK)
2024

Machine Learning Engineer (part-time)
Airhop Communications Inc (CA, USA)
2022

Key Responsibilities : develop general-purpose prediction algorithms for network towers and User Equipment.

Research Intern | Research Assistant
Huawei Noah's Ark Lab (UK)
2019-2021

Key Responsibilities : carry independent research on Concept-to-Text Natural Language Generation (NLG) - pursue publications in top-tier conferences – contribute to the deployment of NLG for prototypes - other research-related duties.

"Best intern award" (2020) for outstanding performance during the internship

RESEARCH

Semantics and Sentiment: Cross-lingual Variations in Emoji Use

Giulio Zhou, Sydelle de Souza, Ella Markham, Tek Kwakpovwe, Sumin Zhao   EMNLP24

Prosody in Cascade and Direct Speech-to-Text Translation: a case study on Korean Wh-Phrases

Giulio Zhou, Tsz Kin Lam, Alexandra Birch, Barry Haddow   Findings of EACL24

Hierarchical Recurrent Aggregative Generation for Few-Shot NLG

Giulio Zhou, Gerasimos Lampouras, Ignacio Iacobacci   Findings of ACL22
Patent Application: PCT/EP2021/074320

Informed Sampling for Diversity in Concept-to-Text NLG

Giulio Zhou, Gerasimos Lampouras   Findings of EMNLP21
Patent Application: PCT/EP2020/059948 - US17/225,364

Generalising Multilingual Concept-to-Text NLG with Language Agnostic Delexicalisation

Giulio Zhou, Gerasimos Lampouras   ACL-IJCNLP 2021
Previously as WebNLG Challenge 2020 submission and presented at INLG 2020