

Liam Cripwell

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EDUCATION

Université de Lorraine / CNRS

October 2020 - December 2023

PhD (Computer Science)

Thesis: Controllable and Document-Level Approaches to Text Simplification

Queensland University of Technology

November 2017

B.InfTech (Hons) - First Class

Overall GPA: 7.0/7.0

Queensland University of Technology

November 2016

B.InfTech (Computer Science)

Minor in Laws

Overall GPA: 6.33/7.0

RELEVANT SKILLS

Programming Languages

Proficient: Python, Scala, JavaScript, C#, Java

Familiar: C++, C, Go, Ruby, Haskell, F#, PHP, R

Machine Learning

PyTorch, Transformers, git, Docker, Pandas, Spacy, numpy

Web/Cloud

AWS (EC2, S3, Lambda), Django, React/Redux, Rails, Node

Databases

MySQL, PostgreSQL, Elasticsearch, S3, SQL

Languages

English (native), French (intermediate)

WORK EXPERIENCE

CNRS

October 2020 - December 2023

Doctoral Researcher

Nancy, FR

- Carrying out NLP research, publishing at major international conferences.
- Focus on controllable and long-form text generation, evaluation and low-resource languages.
- Leading organization of 2023 WebNLG Challenge Shared Task (Low-Resource Languages)

Université de Lorraine

September 2021 - Present

Teaching Staff

Nancy, FR

- Lecturing on systems design and language models for the Cognitive Science and NLP Masters programs.

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June 2019 - September 2020

Machine Learning Engineer

Brisbane, AU

- Building and deploying deep learning products for natural language and signal processing applications.
- Transformer finetuning for summarization, text extraction and classification on meeting transcriptions.
- Data augmentation and model evaluation for speaker diarization and transcription.

Worldview Exchange

January 2018 - June 2019

Software Engineer

Remote

- Leading development of natural language processing and analytics system and web platform.
- Built and deployed API for custom sentiment analysis and argument mining models.
- Integrated browser plugin with backend API for cross-site model execution and monitoring.

Queensland University of Technology

Research Assistant

November 2017 - January 2018

Brisbane, AU

- Assisted with the data preparation and running of various information retrieval experiments.

Queensland University of Technology

Sessional Academic

July 2017 - November 2017

Brisbane, AU

- Tutor for Programming Principles and IT Capstone Project.
- Mentored groups of final-year students in the design and implementation of their final research/industry projects.

Australian e-Health Research Centre (CSIRO)

Research Intern

November 2016 - February 2017

Brisbane, AU

- Research internship in health search, developing methods for automated clinical query generation.

Queensland University of Technology

Research Assistant

July 2016 - November 2016

Brisbane, AU

- Design and implementation of social network information retrieval/recommender system for digital communities researchers.

CSIRO

Research Intern

November 2015 - February 2016

Sydney, AU

- Research internship focusing on the use of wearable technologies and persuasive interventions to assist in the management of an individual's UV exposure.

PUBLICATIONS

Simplicity Level Estimate (SLE): A Learned Reference-Less Metric for Sentence Simplification December 2023

Empirical Methods in Natural Language Processing: EMNLP 2023

Singapore, SG

The 2023 WebNLG Shared Task on Low Resource Languages Overview and Evaluation Results (WebNLG 2023) September 2023

Workshop on Multilingual, Multilingual Natural Language Generation (MM-NLG)

Prague, CZ

Context-Aware Document Simplification

July 2023

Findings of the Association for Computational Linguistics: ACL 2023

Toronto, CA

Document-Level Planning for Text Simplification

May 2023

European Chapter of the Association for Computational Linguistics: EACL 2023

Dubrovnik, HR

Controllable Sentence Simplification via Operation Classification

July 2022

Findings of the Association for Computational Linguistics: NAACL 2022

Seattle, USA

Discourse-Based Sentence Splitting

November 2021

Findings of the Association for Computational Linguistics: EMNLP 2021

Punta Cana, DR

Generating Clinical Queries from Patient Narratives

August 2017

ACM - Special Interest Group on Information Retrieval (SIGIR) Conference

Tokyo, Japan

Promoting UV exposure awareness with persuasive, wearable technologies

July 2016

Health Informatics Society of Australia - Health Informatics Conference

Melbourne, AU

- Branko Cesnik Best Academic/Scientific Paper 2016

REFERENCES

Dr. Claire Gardent

Director of Research at CNRS

claire.gardent@loria.fr

Nancy, FR

Dr. Iain McCowan

Director of AI at Dubber

iain.mccowan@dubber.net

Brisbane, AU

Prof. Daniel Angus

Professor at Queensland University of Technology

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Brisbane, AU

Dr. Bevan Koopman

Senior Research Scientist at AEHRC, CSIRO

Associate Professor at University of Queensland

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Brisbane, AU