

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, Docker, Pandas, Spacy, numpy

Web/Cloud

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

Tools/Databases

Git, CI/CD, 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** November 2017 - January 2018
Research Assistant Brisbane, AU
- Assisted with the data preparation and running of various information retrieval experiments.
- Queensland University of Technology** July 2017 - November 2017
Sessional Academic 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)** November 2016 - February 2017
Research Intern Brisbane, AU
- Research internship in health search, developing methods for automated clinical query generation.
- Queensland University of Technology** July 2016 - November 2016
Research Assistant Brisbane, AU
- Design and implementation of social network information retrieval/recommender system for digital communities researchers.
- CSIRO** November 2015 - February 2016
Research Intern 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, Multimodal, 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

daniel.angus@qut.edu.au

Brisbane, AU

Dr. Bevan Koopman

Senior Research Scientist at AEHRC, CSIRO

Associate Professor at University of Queensland

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Brisbane, AU