

# Liam Cripwell

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Website: <https://liamcripwell.com>

## EDUCATION

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### 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

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### 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

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### 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.

### Notiv

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**

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**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

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**Dr. Claire Gardent**

*Director of Research at CNRS*

claire.gardent@loria.fr

*Nancy, FR*

**Dr. Iain McCowan**

*Director of AI at Dubber*

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*Brisbane, AU*

**Prof. Daniel Angus**

*Professor at Queensland University of Technology*

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**Dr. Bevan Koopman**

*Senior Research Scientist at AEHRC, CSIRO*

*Associate Professor at University of Queensland*

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*Brisbane, AU*