

# Liam Cripwell

Email: [ljcripwell@gmail.com](mailto:ljcripwell@gmail.com)

Website: <https://liamcripwell.com>

## EDUCATION

---

### Université de Lorraine / CNRS

October 2020 - Present

PhD (Computer Science)

Topic: Structure in Neural Natural Language Generation

### 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

## WORK EXPERIENCE

---

### Université de Lorraine

September 2021 - Present

Teaching Staff

Nancy, FR

- Giving lectures and workshops in systems design 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.

### Worldview Exchange

January 2018 - June 2019

Software Engineer

Remote

- Leading development of natural language processing and analytics system and web platform.

### 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.

### 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.

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

## TECHNICAL SKILLS

---

<b>Programming Languages</b>	<i>Proficient:</i> Python, Scala, Javascript, C#, Java, R
	<i>Familiar:</i> Ruby, Haskell, F#, PHP, C, Go, Elm
<b>Databases</b>	MySQL, PostgreSQL, Elasticsearch
<b>Frameworks</b>	Django, Rails, Node/Express, React/Redux
<b>Tools</b>	Unix, Git, AWS, Numpy, Pandas, PyTorch, Spacy, Docker

## CERTIFICATIONS

---

**Practical Reinforcement Learning, a course by HSE University on Coursera** January 2022

- RL Foundations; Deep RL; State-of-the-Art RL Techniques

**Mathematics for Machine Learning, a 3-course specialization by Imperial College London on Coursera** March 2019

- Linear Algebra; Multivariate Calculus; Principal Component Analysis

**Deep Learning, a 5-course specialization by deeplearning.ai on Coursera** November 2018

- Neural Networks & Deep Learning; Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization; Structuring Machine Learning Projects; Convolutional Neural Networks; Sequence Models

## PUBLICATIONS

---

**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, Dom. Rep.

**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** claire.gardent@loria.fr  
*Senior Research Scientist at CNRS* Nancy, FR

**Dr. Iain McCowan** iain.mccowan@notiv.com  
*Director of AI at Dubber* Brisbane, AU

**Dr. Daniel Angus** daniel.angus@qut.edu.au  
*Associate Professor at Queensland University of Technology* Brisbane, AU

**Dr. Bevan Koopman** bevan.koopman@csiro.au  
*Research Scientist at AEHRC, CSIRO* Brisbane, AU