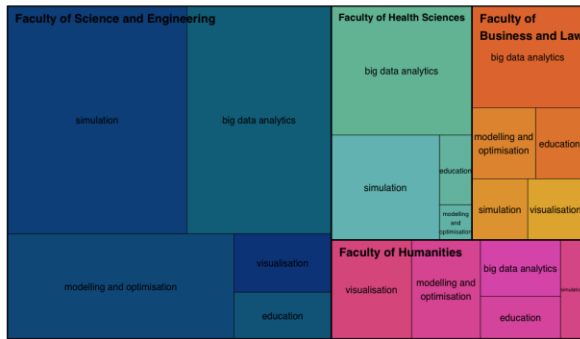


Meeting the increasing demand for research software and computing skills across all faculties

## Who We Are

The Curtin Institute for Computation (**CIC**) was established in 2015 to provide **dedicated computational support** to Curtin University's research community in order to solve complex problems.



The CIC is a multidisciplinary virtual institute, **inspiring and fostering collaborative and interdisciplinary research** across Curtin University. The CIC has **>200 members** from Curtin's 4 faculties (Business and Law, Humanities, Health Sciences, and Science and Engineering).



### Natural Language Processing Case Study: Analysing violent extremist communications and their uptake in the media

- Humanities
- Curtin Institute for Computation

@CurtinIC  computation.curtin.edu.au  CurtinIC@curtin.edu.au

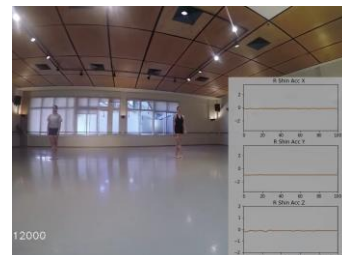
## What We Do



The CIC has **5 core themes**: big data analytics, simulation, modelling and optimisation, visualisation, and education.

The CIC has a growing **team of data scientists** who work closely with researchers on a wide variety of projects, providing expertise across our 5 themes (check out the **3 case studies below!**).

The CIC provides face-to-face training through **Software Carpentry, Python, R, and machine learning** workshops.



### Machine Learning Case Study: Activity recognition of ballet dancers using wearable sensors

- Health Sciences
- WA Performing Arts Academy
- Curtin Institute for Computation

## Outcomes

Activity	Number
Research Projects	> 50
Papers (published or in prep)	> 30
Software/frameworks/pipelines	> 60
Visitor program	3 rounds, with ~\$75k granted
Training workshops	>500 HDR and ECR

**2018 Curtinovation award winner** for the 'Brains + Grains' Harvest Optimisation project- [see the video here!](#)



### Mathematical Modelling Case Study: Brains + grains = gains: a novel decision-making tool for farmers

- Science and Engineering
- Global Grain Handling Solutions
- Curtin Institute for Computation