


## PERSONAL INFORMATION


 Christina Van Heer

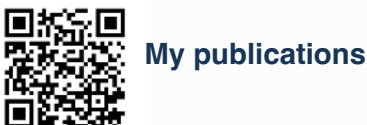
 Melbourne

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 <https://github.com/cavnheer>



My publications

## EDUCATION

- 2016- PhD Candidate (Part time),  
Cognitive Computational Cognitive  
Science - Modelling Human  
Learning Under Uncertainty
- 2012 Post Graduate Diploma
- 2011 Graduate Diploma (Psychology)
- 2010 Bachelor of Science (Chemistry)  
Major: Chemistry  
Monash University

## PROFESSIONAL DEVELOPMENT

- 2019 Invited Talk: Australian Cognitive  
Neuroscience Society Conference,  
University of Tasmania
- Invited Workshop: R analysis and  
ggplot2 for beginners
- Best Speaker: Psychological  
Sciences PhD Conference
- 2018 Invited Talk: Ecole Normale  
Supérieure, and NeuroSpin  
Research Institute, Paris.
- Selected from over 300 candidates  
to attend a 2-week international  
computational modelling workshop  
in Burgundy, France.

## ABOUT ME

**Driven and enthusiastic computational scientist with 7 years experience working with complex statistical models. Strong communicator with recognised excellence in modelling. Thorough planner and problem solver who can work independently and as part of a team.**

## PROFESSIONAL SKILLS

**Computational modelling skills** Seven years experience using complex statistical models to *explain and predict data*. Expertise in multiple coding languages (R, Python, Javascript, SQL)

**Problem solving** Can break down highly complex questions, from design, through to coding, implementation, online delivery and statistical modelling, and visualisation. Can troubleshoot projects step by step under time constraints.

**Building and maintaining relationships with stakeholders** Experienced in building and maintaining relationships with stakeholders and managing competing interests across the public sector.

**Communication** Skilled scientific communicator who is passionate about breaking down complex problems into easy-to-understand language, and have presented my research both nationally and internationally.

## EMPLOYMENT HISTORY

**Senior Analyst Modelling and analytics team (Sep 2021 - Present)**  
**Forward Strategy Team, Department of Health (Feb 2021 - Aug 2021)**

### Key responsibilities

- Providing strategic advice and modelling around the risk factors for hospitalisation, isolation, testing and quarantine scenarios
- Development of reporting metrics to visualise and assess case and hospitalisation, and incursion risk via daily and weekly dashboards
- Modelling of risks associated with travel and quarantine of travellers from high prevalence countries of interest
- Analytics support to the Forward Strategy Team on the COVID-19 response via daily, weekly and monthly strategy analysis and reporting to the Public Health, Secretary and Health Minister's teams in a time sensitive manner for cabinet meetings and press conferences.

### Key achievements

- Advice from modelling was used to inform testing strategies for The Australian Open and Grand Prix, together with colleagues from Public Events, and Jobs Precincts and Regions
- Modelling of risk factors associated with hospitalisation is actively being used to inform triage related cutoffs for the covid positive pathways program in Victoria

# Christina Van Heer

2018

Teaching Assistant, Complex Human Data Modelling Summer School, The University of Melbourne

Delivered workshop: R and ggplot2 for beginners, University of Melbourne PhD Camp

2017

Secretary, Graduate Students in Psychological Sciences

Research and Research Training Committee Representative, The

Invited Talk: Cognitive Lunch Series, The University of Melbourne

Assistant, Research Platforms R workshop, The University of

2015

Best Speaker: Australian Cognitive Neuroscience Conference,

## Technical Officer, Monash Biomedical Imaging (2017 - Feb 2021)

### Key responsibilities

- Setup and troubleshooting of human neuroimaging, behavioural and genetic projects in mental illness, neurological disorders and health (exercise) research areas.
- Programming (MATLAB, Python) and technical support for researchers
- Writing risk, compliance and SOP documentation for researchers
- Training of all new users in human neuroimaging equipment (EEG, MRI, MR-PET, eyetracking).
- On-call troubleshooting and coding support.

### Achievements

- Overseen (30+) research projects to completion with national and international research partners.
- Over 500 jobs logged and resolved as part of a support team of 2 staff.

## Senior Statistics Tutor, The University of Melbourne (2015 - 2020)

### Key responsibilities

- Teaching weekly 1 hour tutorials to third year students using R.
- Content development (slides and code).
- Marking of assignments.

### Achievements

- Nominated for a teaching award.
- Successfully pivoted to teaching online in 2020
- Many of my students have gone on to further study in psychology (honours, masters, PhD).

## Research Assistant - Vision and Attention Laboratory (2016), The University of Melbourne

### Key responsibilities

- Coding and supervision of experiments for an honours student project
- Developing and coding experiments.
- Computational modelling and data analysis using MATLAB and R.

### Achievements

- My work resulted in 1 peer reviewed publication in Psychonomic Bulletin and Review.

## Research Assistant / Lab Manager - Decision Neuroscience Laboratory The University of Melbourne (2014 - 2016)

### Key responsibilities

- Used machine learning methods and statistical analyses to predict human brain activity and behaviour via survey-based methods.
- Developing and coding experiments.
- Dealing with grant bodies and other stakeholders, recruitment, and maintaining financial and data records.

### Achievements

- 1 peer reviewed publication in *Social Cognitive Affective Neuroscience*
- Built and maintained large scale collaboration between researchers The University of Cologne and The University of Melbourne.
- Ran a neuroimaging study (budget: \$30 000) in 6 months.
- Contributed code which was developed into a free toolbox

## REFEREES

### Daniel West

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### Dr Jose Canevari

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