

# Curriculum Vitae

## Simon Jerome Han

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Location: Sydney, Australia

### EDUCATION

#### The University of California, Irvine

Aug 2022

Summer School on Computational Cognitive Modelling for Language

##### Coursework

Information theory, deep learning for NLP, probabilistic programming

#### The University of Melbourne

Feb 2017 - Nov 2020

Bachelor of Science, Psychology

Chancellor's Scholar

First Class Honours

##### Coursework

Cognitive psychology, developmental psychology, calculus, linear algebra, statistics, probability

#### The University of Melbourne

Feb 2017 - Nov 2020

Diploma of Informatics, Computing and Software Systems

First Class Honours

##### Coursework

Machine learning, algorithms and data structures, database systems, software development

### PUBLICATIONS

Han, S. J., Ransom, K. J., Perfors, A., & Kemp, C. (2022). Human-like property induction is a challenge for large language models. *Proceedings of the 44th Annual Conference of the Cognitive Science Society*.

Han, S. J., Kelly, P., Winters, J. & Kemp, C. (2022). Simplification is not dominant in the evolution of Chinese characters. *Open Mind*.

Butavicius, M., Taib, R., & Han, S. J. (2022). Why people keep falling for phishing scams: The effects of time pressure and deception cues on the detection of phishing emails. *Computers and Security*.

Property induction in large language models. (Working paper)

### AWARDS

#### Summer Research Scholarship, CSIRO, 2019.

Funding for summer research.

Value: ~\$8,000

#### National Scholarship, The University of Melbourne, 2017.

Full academic scholarship, awarded to the top 0.1% of students state-wide.

Value: ~\$55,000

#### Premier's Award in English, VCAA, 2017.

Top English student in the state of Victoria (subject cohort size ~40,000).

#### Top Designs Board Award, VCAA, 2017.

My design work was exhibited at the Melbourne Museum!

Value: \$1,000

## EXPERIENCE

### Machine Learning Engineer

#### Canva

Dec 2020 - Present

Applied NLP and CV within Canva's Search and Recommendations group. Driving ML projects end to end, from research to production.

#### Highlights

- Deployed our first vision model for recommendations, driving double digit percentage increases in user interactions
- Ran R&D for a deep learning approach to visual style detection
- Applied Bayesian statistical methods to solve search query understanding, language detection and translation

### Data Analyst

#### CSIRO Data61

December 2019 - July 2020

Experiment design and analysis for a joint project between the CSIRO (Australia's national science research org) and DST (Australia's defence science research org).

#### Highlights

- Planned, implemented and executed an in person study with 30+ participants using EEG and eye tracking sensors
- Planned and implemented an online study with 200+ participants on Amazon MTurk

## SKILLS

**Programming Languages:** Python, SQL, Java, C, WebPPL

**Tools:** PyTorch, Tensorflow, Scikitlearn, Pandas

**Misc:** git, Snowflake, DBT, Mode, AWS

## PERSONAL

**Born:** Singapore, 1998

**Nationality:** Australian, Canadian

**Natural Languages:** English, Mandarin

**Hobbies:** Running, art and design. I was once very active in classical music. If I hadn't discovered computing, I would be an architect.