

HAMISH NICHOLSON

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EDUCATION

HARVARD UNIVERSITY

Cambridge, Massachusetts

A.B with high honors in computer science with a secondary in statistics.

May 2020

Coursework focusing on: data systems, machine learning, cloud computing, probability and statistics.

Thesis: *Psychophysical Evaluation of Deep Re-Identification Models*

MELBOURNE GRAMMAR SCHOOL

Melbourne, Australia

October 2015

TECHNICAL SKILLS

Github: github.com/Shamazo

Website: www.nicholson.ai

Programming: Proficient in C/C++ and Python, including Sklearn, Pytorch and Numpy. Experienced in SQL and OCaml. Working knowledge of HTML, CSS, JavaScript, MATLAB and R.

Cloud platforms: Familiar with Azure, AWS and GCP.

Operating Systems: Windows 10/7 and Linux. Proficient in Bash. Manage several Linux servers.

EXPERIENCE

OCIANT

Working on the core database product, which is designed to take advantage of modern hardware developments such as NVMe storage and high core counts.

Chicago, Illinois
September 2020 - Present

FRACTAL COMPUTERS

Developed a new build system for a multi platform application. Designed and built a continuous integration pipeline, significantly reducing the number of bugs deployed to production

Boston, Massachusetts
May 2020 - August 2020

PERCEPTIVE AUTOMATA

Integrated techniques from psychology and computer vision to better understand pedestrian re-identification performance under degraded conditions.

Somerville, Massachusetts
June 2019 - September 2019

RADCLIFFE INSTITUTE FOR ADVANCED STUDY

Investigated young massive stars by applying clustering and visualization techniques to the Gaia dataset

Cambridge, Massachusetts
September 2018 - May 2019

JET PROPULSION LABORATORY, NASA

Processed data from the Juno mission to analyze the upper atmosphere of Jupiter

Pasadena, California
June 2018 - September 2018

HARVARD COLLEGE BUREAU OF STUDY COUNSEL

Tutored undergraduates in Computer Science 51

Cambridge, Massachusetts
January 2018 - May 2018

HARVARD COLLEGE

Course assistant for Computer Science 50

Cambridge, Massachusetts
September 2017 - December 2017

October 2020

PUBLICATIONS

Modeling Score Distributions and Continuous Covariates: A Bayesian Approach. McCurrie, Mel, Nicholson, Hamish, Scheirer, Walter J, and Anthony, Samuel. Presented at IJCB 2020, available on arXiv: arXiv:2009.09583 2020

Fine-Scale Waves in Jupiter's Atmosphere Detected by JunoCam. Orton, Glenn S, Tabataba-Vakili, Fachreddin, Eichstädt, G, Hansen, Candice J, Momary, Thomas, Rogers, John, Ingersoll, Andrew P, and Nicholson, Hamish AGUFM 2019

LEADERSHIP, ACTIVITIES & INTERESTS

WHRB - HARVARD RADIO BROADCASTING

DJ and Chief Engineer (Jan 2018-January 2020)

Continuing to consult on technical issues as an alumnus

Cambridge, Massachusetts

May 2017 - May 2020

HARVARD EUROPEAN SOCIETY

Academic committee member and secretary of the board (April 2018-Dec 2019)

Cambridge, Massachusetts

Jan 2017 - Dec 2019

HARVARD AUSTRALIAN UNDERGRADUATE SOCIETY

“Prime Minister”

Cambridge, Massachusetts

April 2019 - May 2020

Interests: Photography. Music, particularly radio technology and audio gear. Travel. Cooking.

Citizenship: US, Australia, Canada