

Aristides Mairena

amairena.github.io

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EDUCATION

UNIVERSITY OF SASKATCHEWAN | MSc IN COMPUTER SCIENCE

THESIS: PERIPHERAL NOTIFICATIONS IN LARGE DISPLAYS: EFFECTS OF FEATURE COMBINATIONS AND TASK INTERFERENCE

SUPERVISOR: CARL GUTWIN

Expected 2019 | Saskatoon, SK

MERCYHURST UNIVERSITY | B.A IN INFORMATION TECHNOLOGY

Aug 2013 - May 2017 | Erie, PA

Cum. GPA: 3.6 / 4.0 • Major GPA: 3.88 / 4.0

EXPERIENCE

ERIE CUSTOM COMPUTER APPLICATIONS | SOFTWARE DEVELOPER INTERN

May 2016 – Dec 2016 | Erie, PA

- Migrated and Merged existing Access databases into SQL Databases.
- Developed a responsive Web Application to simplify management of databases using C# and ASP.NET.
- Developed automated generation of reports through Crystal Reports.
- Created and maintained project documentation, outlined venues for future improvements.

RESEARCH

HCI LAB | GRADUATE RESEARCH ASSISTANT

Aug 2017 – Present | Saskatoon, SK

- Worked with **Prof Carl Gutwin** and **Prof Andy Cockburn** investigating human perception to visual stimuli for peripheral notification design. Publication accepted at CHI 19'.
- Developed custom software in Processing/Java for experimental tasks and participant data collection.
- Analyzed experimental data through various statistical methods in R.
- Wrote and edited materials for international conference publications and presentations.

MERCYHURST MATH DEPT. | COMPUTER PROGRAMMING ASSISTANT

Aug 2015 – Apr 2017 | Erie, PA

- Designed database schema containing over 15 tables for forensic anthropology data.
- Created databases utilizing PHP5, and MySQL that streamlined data management.
- Developed intake forms that improved user experience for interaction with MySQL Database.
- Developed a web application in HTML, CSS, Javascript and PHP (back-end) that allowed users to collect, manage and view their data.

TEACHING

UNIVERSITY OF SASKATCHEWAN | TEACHING ASSISTANT

Jan 2018 – Present | Saskatoon, SK

- CMPT 355: Theory and Application of Databases

MERCYHURST UNIVERSITY | PEER TUTOR

Aug 2015 - Apr 2017 | Erie, PA

- MIS 150: Intro to Data Science
- MIS 126: Programming I
- MIS 226: Programming II

LANGUAGES

PROGRAMMING

Python • Java • JavaScript • R • HTML • CSS • C# • PHP • SQL • \LaTeX

Software/Libraries:

Tableau • Gimp • D3.js • SQL Studio

SPOKEN & WRITTEN

Native fluency:

English, Spanish

Reading fluency:

French

HONOURS AND AWARDS

- ISAACS Travel Award (CAD \$200), 2018
- Faculty Scholarship, University of Saskatchewan (CAD \$20000/yr), 2017-2019
- Cum Laude, Mercyhurst University, 2017
- Mercyhurst International Scholarship (USD \$22000/yr), 2013-2017

VOLUNTEER AND SERVICE

- Reviewer (CHI 2019 Late Breaking Work)
- Volunteered at Digitized 2018, Dept. of CS, UofS.

CONFERENCES AND WORKSHOPS ATTENDED

- ACM CHI Conference on Human Factors in Computing Systems, Montreal QC, 2018
- MITACS Entrepreneurship Workshop, Saskatoon, 2017
- MAA Allegheny Mountain Section Meeting, Duquesne University, Spring 2017
- MAA Allegheny Mountain Section Meeting, Gannon University, Spring 2016

MEMBERSHIP

- Association for Computing Machinery

PUBLICATIONS

- [1] M. Dechant, I. Stavness, A. Mairena, and R. L. Mandryk. Empirical evaluation of hybrid gaze-controller selection techniques in a gaming context. In *Proceedings of the 2018 Annual Symposium on Computer-Human Interaction in Play*, CHI PLAY '18, pages 73–85, New York, NY, USA, 2018. ACM.
- [2] A. Mairena, C. Gutwin, and A. Cockburn. Peripheral notifications in large displays: Effects of feature combination and task interference. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems*, CHI '19, 2019.