

CONTACT

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- 🏠 DAISY Lab

SKILLS

Machine Learning	5+ yrs
Deep Learning	4+ yrs
NLP	3+ yrs
Time Series classification/forecasting	4+ yrs
Transfer Learning	3+ yrs
Web Scraping	5+ yrs
Visualization	5+ yrs

RICARDO FLORES

Research Assistant - Data Science Department

EDUCATION

Ph. D. - Data Science Worcester Polytechnic Institute (WPI), MA, USA	2018 - ongoing
M. S. - Economics University of Concepcion - Concepcion, Chile	2011 - 2013
B.S. - Business Engineer University of Concepcion - Concepcion, Chile	2006 - 2010

WORK EXPERIENCE

Economic Analyst Central Bank of Chile, Santiago, Chile	2014 - 2018
Collecting, cleaning, modeling, and publishing data related to economic indicators of Chile. Research in the statistic and real estate market.	
Assistant Professor University of Concepcion, Concepcion, Chile	2012 - 2013
Teaching microeconomics (undergrad) and econometrics (graduate).	

PUBLICATIONS

AudiFace: Multimodal Deep Learning For Depression Screening Machine Learning for Healthcare, 2022 Status: Accepted	MLHC
Transfer Learning for Depression Screening from Follow-up Clinical Interview Questions Deep Learning Applications, vol 4, Springer, 2022 Status: Accepted	DLAV
Early Mental Health Uncovering with Short Scripted and Unscripted Voice Recordings Deep Learning Applications, vol 4, Springer, 2022 Status: Accepted	DLAV
Measuring the Uncertainty of Environmental Good Preferences with Bayesian Deep Learning ACM International Conference on Information Technology for Social Good (GoodIT), 2022 Status: Accepted	ACM

PROGRAMMING

R	5+ yrs
Python	4+ yrs
Linux	3+ yrs
SQL	2+ yrs
Stata	5+ yrs

ACHIEVEMENTS

Ph.D. Scholarship, 2018 - 2022

Acceptance rate 9%

Ph.D. Scholarship to study in the United States, supported by Fulbright Foreign Student Program and the National Agency for Research and Development (ANID), Chile.

Award, 2015

Innovator Of The Year

Innovator of the year, nominated by the Statistics Department of Central Bank of Chile.

M. S. Scholarship, 2012 - 2013

Acceptance rate 18%

National masters scholarship supported by the National Agency for Research and Development (ANID), Chile.

DepreST-CAT: Retrospective Smartphone Call and Text Logs Collected During the COVID-19 Pandemic to Screen for Mental Illnesses

ACM Proceedings on Interactive, Mobile, Wearable and Ubiquitous Technologies, vol 6 (2), 2022

Status: Accepted and Published

ACM

StudentSADD: Rapid Mobile Depression and Suicidal Ideation Screening of College Students during the Coronavirus Pandemic

ACM Proceedings on Interactive, Mobile, Wearable and Ubiquitous Technologies, vol 6 (2), 2022

Status: Accepted and Published

ACM

Ensembles of BERT for Depression Classification 44th International Conference of IEEE Engineering in Medicine and Biology Society (EMBC), 2022

Status: Accepted and Published

IEEE

Impact Assessment of Stereotype Threat on Mobile Depression Screening using Bayesian Estimation Healthcare Analytics, Elsevier, 2772-442, 2022

Status: Accepted and Published

Elsevier

Depression Screening Using Deep Learning on Follow-up Questions in Clinical Interviews 20th IEEE International Conference on Machine Learning and Applications (ICMLA), 2021

Status: Accepted and Published

ICMLA

PROJECTS

Multimodal Models for Depression Screening Tool: Transfer learning

We leverage state-of-the-art transfer learning models for depression screening using as input the recorded audio, text transcript, and images of patient interview.

2021

Missing Values in Multivariate Time Series Tool: Deep Learning

We apply deep learning models to impute missing values and classify multivariate time series, using some modify Recurrent Neural Network. The application of these techniques is in Healthcare.

2019

An Alternative Housing Price Index for Chile Tool: Web Scraping

We use the Web Scraping technique to collect data from real estate website. Then, we compute a new index that is useful as a contrast index.

2017

Urban Land Value Estimation for Chile Tool: Machine Learning

We developed a methodology to estimate the national value of a property separated by construction and land. This result will improve the Chilean household statistics.

2017

WORKSHOPS & CONFERENCES

Machine Learning for Healthcare
MLHC

Aug 2022

20th International Conference on Machine Learning
and Applications (ICMLA)
IEEE

Dic 2021

Recent Progress in Foundational Data Science, IMA
Workshop
University of Minnesota, Minneapolis, USA

Aug 2019

60th World Statistics Congress
Rio de Janeiro, Brazil

Aug 2015

EXTRACURRICULAR

- Guitar
- Martial arts
- Fly Fishing