

CONTACT

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- 🏠 DAISY Lab

SKILLS

- Deep Learning 5+ yrs
- Natural Language Processing 4+ yrs
- Computer Vision 3+ yrs
- Signal Processing 4+ yrs
- Transfer Learning 5+ yrs
- Time Series 5+ yrs
- Visualization 5+ yrs

RICARDO FLORES

Data Science Ph.D.
Advisor: Elke Rundensteiner

EDUCATION

- Ph. D. - Data Science** 2018 - 2023
Worcester Polytechnic Institute (WPI), MA, USA
- M. S. - Economics** 2011 - 2013
University of Concepcion - Concepcion, Chile
- B.S. - Business Engineer** 2006 - 2010
University of Concepcion - Concepcion, Chile

WORK EXPERIENCE

- Postdoc, Data Fusion and Machine Learning** 2023 - 2024
Sanofi (healthcare/pharmaceutical Co.), MA, USA
Evaluate and apply multimodal models using machine/deep learning techniques to multi-sensor tools for complex biological datasets
- Teaching Professor** 2022 - 2023
Metropolitan University of Tech., Santiago, Chile
Teaching Machine Learning and Deep Learning for data analysis techniques course
- Data Analyst** 2014 - 2018
Central Bank of Chile, Santiago, Chile
Collecting, cleaning, modeling, and publishing data related to economic indicators of Chile. Research in the statistics and real estate market
- Assistant Professor** 2012 - 2013
University of Concepcion, Concepcion, Chile
Teaching microeconomics (undergrad) and econometrics (graduate)

PUBLICATIONS

- DeepScreen: Boosting Depression Screening Performance with an Auxiliary Task** BigData
IEEE International Conference on Big Data, 2023
Status: Accepted
- Multi-Task Learning Using Facial Features for Mental Health Screening** BigData
IEEE International Conference on Big Data, 2023
Status: Accepted

PROGRAMMING

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

ACHIEVEMENTS

Research Award, 2023

Second place

Data Science, Cybersecurity, and Computer Science category for the Graduate Research Innovation Exchange (GRIE), 2023. At Worcester Polytechnic Institute (WPI), MA, USA

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

WavFace: A Multimodal Transformer-based Model for Depression Screening

Mob. Wearable Ubiquitous Technol. (IMWUT), 2023

IMWUT

Status: Submitted

Wearable wellness, depression screening via Fitbit data collected during covid 19 pandemic

MIT IEEE Undergraduate Research Technology Conference, 2023

MIT-URTC

Status: Accepted

AudiFace: Multimodal Deep Learning For Depression Screening

Machine Learning for Healthcare, 2022

MLHC

Status: Accepted and Published

Temporal Facial Features for Depression Screening

ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) Mental Health: Sensing and Intervention, 2022

ACM

Status: Accepted and Published

BERT Variants for Depression Screening with Typed and Transcribed Responses

ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) Computing for Well-being (WellComp), 2022

ACM

Status: Accepted and Published

Transfer Learning for Depression Screening from Follow-up Clinical Interview Questions

Deep Learning Applications, vol 4, Springer, 2023

Springer

Status: Accepted and Published

Early Mental Health Uncovering with Short Scripted and Unscripted Voice Recordings

Deep Learning Applications, vol 4, Springer, 2023

Springer

Status: Accepted and Published

Measuring the Uncertainty of Environmental Good Preferences with Bayesian Deep Learning

Proceedings of the 2022 ACM Conference on Information Technology for Social Good, 2022

ACM

Status: Accepted and Published

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

ACM

Status: Accepted and Published

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

ACM

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

Status: Accepted and Published

Ensembles of BERT for Depression Classification
44th International Conference of IEEE Engineering in Medicine and Biology Society (EMBC), pp 4691-4694, 2022

IEEE

Status: Accepted and Published

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

Elsevier

Status: Accepted and Published

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

ICMLA

Status: Accepted and Published

WORKSHOPS & CONFERENCES

Mental Health: Sensing and Intervention
Atlanta, US

Sep 2022

ACM International Conference on Information Technology for Social Good
Limassol, Cyprus

Sep 2022

Machine Learning for Healthcare
MLHC

Aug 2022

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

Dec 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