

EDUCATION

- **University of California, Berkeley** Berkeley, California
PhD Student in Electrical Engineering & Computer Science *Aug. 2020 – Present*
Advisor: Prof. Michael (Miki) Lustig. Research in machine learning and biofeedback for Magnetic Resonance Imaging. GPA: 4.0 / 4.0.
- **Pontificia Universidad Católica de Chile (PUC)** Santiago, Chile
Bachelor's Degree in Engineering. *Mar. 2014 – Jul. 2018*
Electrical Engineering Major, Computer Science Minor.
GPA: 6.6 / 7.0. Ranked No.1 out of 875 students in my promotion.
- **University of California, Davis** Davis, California
UCEAP Exchange Program, Computer Science & Engineering Major. *Sep. 2017 – Mar. 2018*
GPA: 4.0 / 4.0. Fall and Winter quarters. Dean's Honor List.

WORK EXPERIENCE

- **HeartVista Inc.** Los Altos, California
Machine Learning Software Engineer *Jul. 2018 – Aug. 2020*
Develop clinical level deep learning models for the first FDA-cleared self-driving MRI (Magnetic Resonance Imaging).

TEACHING & RESEARCH

- **Graduate Student Researcher** EECS Department, UC Berkeley
Advisor: Prof. Michael Lustig, Ph.D. *Fall 2020*
Research in Machine Learning and Biofeedback for Magnetic Resonance Imaging.
- **Research Assistant – Deep Learning Explainability** CS Department, PUC
Advisors: Prof. Álvaro Soto, Ph.D. and Prof. Juan Carlos Niebles, Ph.D. *2018 - 2019*
“Explaining VQA predictions using visual grounding and a knowledge base”. CS Department, Stanford
- **Computer Science Tutor** UC Davis CS Tutoring, UCD
Tutor for CS courses. Weekly tutoring office hours and occasional review sessions. *Winter 2018*
- **Research Assistant – Sonification of 4D Flow MRI** Biomedical Imaging Center, PUC
Research Advisor: Prof. Pablo Irarrázaval, Ph.D. *2016 - II*
- **Project Assistant** Physics Department, PUC
Supervisor: Prof. Juan Pedro Ochoa-Ricoux, Ph.D. *2016 - I*
Project: Facilitating the Understanding of University Physics through Class Experiments.
- **Teacher Assistant – Various Courses** PUC
Prepare and lead weekly discussions sessions. Took on average 2 positions per semester. *2015 – 2018*
Courses in Engineering, Physics, and Mathematics Departments:
 - *Advanced Python Programming*
 - *Data Structures & Algorithms*
 - *Electronics*
 - *Electromagnetic Theory*
 - *Electricity & Magnetism*
 - *Thermodynamics*
 - *Statics & Dynamics*
 - *Calculus I*
 - *Tennis I*

AWARDS & FELLOWSHIPS

- **Academic Excellence Graduation Award** PUC
Distinguished as rank 1st scholar of the Engineering B.S. graduation promotion at PUC. Oct. 2018
- **Dean's Honors List, College of Engineering** UC Davis
Distinguished in both quarters of my exchange program. Fall 2017, Winter 2018
- **Highest Score in Fundamentals of Engineering Examination** PUC
Tested in Feb. 2017 at PUC (1st out of 530 students). Apr. 2017
- **Engineering Honours Scholarship – *Matrícula de Honor*** PUC
Distinguished as top scholar of the engineering promotion 2014 in PUC. Mar. 2017
(1st out of 875 students)
- **Engineering Honours Scholarship – *Matrícula de Honor*** PUC
First year 100% Scholarship because of Entry Tests Scores – PSU. Mar. 2014
- **National Admissions Test Double Award** Government of Chile
Doble Puntaje Nacional. Perfect Score in Math and Science Tests. Equivalent to SAT. Dec. 2013
 - **Mathematics National Test Award (*Puntaje Nacional PSU Matemáticas*):** Maximum score in Chilean college entry National Examinations (top 0.1% of total applicants in Math)
 - **Science National Test Award (*Puntaje Nacional PSU Ciencias*):** Maximum score in Chilean college entry National Examinations (top 0.1% of total applicants in Science)

PUBLICATIONS & PRESENTATIONS

- **High Fidelity Deep Learning-based MRI Reconstruction with Instance-wise Discriminative Feature Matching Loss:** K. Wang, J. I. Tamir, **A. De Goyeneche**, U. Wollner, R. Brada, S. Yu, M. Lustig. [In submission - arXiv preprint arXiv:2108.12460].
- **Deep-Learning-Based Motion Correction For Quantitative Cardiac MRI:** **A. De Goyeneche**, S. Tang, N. O. Addy, B. Hu, W. Overall, J. M. Santos. In *International Society for Magnetic Resonance in Medicine Annual Meeting*. 2021.
- **Explaining VQA predictions using Visual Grounding and a Knowledge Base:** F. Riquelme*, **A. De Goyeneche***, Y. Zhang, J. C. Niebles, A. Soto. Journal publication at *Image and Vision Computing*. 2020. (*Equal contribution.)
- **One-Click Spine MRI:** **A. De Goyeneche**, E. Peterson, J. J. He, N. O. Addy, J. M. Santos. Abstract and poster presentation at *Medical Imaging meets NeurIPS Workshop*. Vancouver, Canada. 2019.
- **Automated Cardiac Magnetic Resonance Imaging:** **A. De Goyeneche**, N. O. Addy, J. M. Santos, B. Hu. Abstract and poster presentation at *American Heart Association Scientific Sessions*. Philadelphia, Pennsylvania. 2019.
- **Rapid Automated Cardiac Imaging:** **A. De Goyeneche**, N. O. Addy, E. Peterson, H. Islam, W.R. Overall, J. M. Santos, B. Hu. Abstract and poster presentation at *Frontier of AI-Assisted Care (FAC) Scientific Symposium*. Stanford, California. 2019.

LANGUAGES & SKILLS

- **Spanish:** Native.
- **English:** TOEFL iBT: 111 / 120 (R:30, L:29, S:25, W:27)
- **Programming Languages:** Python, Matlab, C++, C.
- **Deep Learning Frameworks:** TensorFlow, Pytorch, Caffe.