

**Jerónimo Aranda Barois**  
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## EDUCATION

**Instituto Tecnológico Autónomo de México [ITAM] (double degree)**  
Applied mathematics.  
Computer engineering.  
Expected Graduation Date: December 2019  
Currently doing thesis on *liquid brains* and last courses.  
Grade Point Average: 8.8 out of 10 (GPA 3.52)  
Spanish and French (native), English (advanced-C1, IELTS and CAE).

**Australian National University [ANU]**  
Exchange student for 6 months. Courses in computer vision, artificial intelligence, dynamic systems and statistical inference.

## WORK EXPERIENCE

06/19-07/19 **Morgan Stanley Capital International inc.**  
*Summer research intern working with a CNN NLP model, I did some performance tests and product development around the model.*

02/19-4/19 **Project collaboration with OpenBlender**  
*Developing jupyter-notebook usecases for OpenbBlender. (Recomender system and NLP price predictor.)*

07/18-12/18 **ITAM robotics lab**  
*Research assistant*  
Working with a driverless car, optimizing trajectories for collision avoidance and maximum performance.

Summer of 2018 **Cherry picker**  
Did 2 months of piece work cherry picking in the Canadian outback near Vancouver.

03/17 -5/17 **Food delivery bike rider at Deliveroo**  
Delivered food bike riding in the Australian capital of Canberra.

## DEVELOPED PROJECTS

Summer of 2019 **COSAbot:** image processing bot in twitter. Scrapes images, filters them with mathematical transformations(K-means, CNNs) and then posts them. [Twit](#) him something.

02/17-to date **Image processing tools:** Implemented some basic tools for color palette extraction with k-means algorithm and developed a tool to cut panoramic images for better Instagram visualization. [Clone](#) the notebook.

03/18-05/18 **Leather shoes:** Bought some leather and did some pairs of simple functional leather shoes.

## TECHNICAL SKILLS

### Programming Languages:

- Python (Numpy, pandas, scikitlearn, opencv, I love jupyter notebooks!)
- Java (advanced)
- Matlab (advanced)
- C++ (intermediate)

### Mathematics and computing:

- Optimization and modelling(intermediate)
- Statistics(intermediate)
- Fluid dynamics(thesis)
- Interested in information processing.

## AWARDS AND LEADERSHIP

- "Beca Generación Bicentenario" High Academic Achievement Scholarship honoring the 200 Mexico national anniversary, Nacional Monte de Piedad, 2010
- Contestant at ACM-ICPC Mexico & Central America regional tournament, which was held at Guadalajara, Mexico, 2015
- Published an article on Image processing with python on a friends [website](#).
- 90% Merit Based Scholarship, ITAM, 2014
- Member of the ITAM Applied Mathematics students association, 2015
- Triathlon contestant in the Mexico National Olympiads, Veracruz, 2014.
- Half IronMan(triathlon) and half marathoner.