

# Francisco Tobar

Bsc. in Computer Science & Engineering

Valparaíso, Chile

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🌐 <https://www.linkedin.com/in/ftobarm/>

## Work Experience

- Jan 2017 to Feb 2017 **Internship Data Scientist, U-Planner, Valparaíso.**  
Development of a machine learning algorithm for courses enrollment prediction for educational institutions
- Jan 2016 to Feb 2016 **Internship Data Scientist, Geoinova, Santiago.**  
Development of a quick implementation of K-neighbors in high dimension. Also, the implementation of communication between Cuda DLLs and Electron Framework

## Projects

- 2017 **Zoome.**  
Project of lights automatization and intelligent edition of photos for the e-commerce. Was developed in team for the university software fair. Project Webpage: <https://www.facebook.com/76Zoome/>
- 2018 **Dlogistic product management.**  
Project developed for a delivery company, to manage internally package through barcodes, using smartphone as barcode readers

## Research

- Mar 2018-ongoing **Overcoming the memory limitations in Image Generating GANs, Advisor: Claudio Torres.**  
Project focused in reduce the computational cost of training image generating GANs without sacrifice the quality of results, trough a multi frequency separations of the features maps achieving a reduction of approximately 30% of memory usage without affecting the quality of the result. Project Repository: <https://github.com/ftobarm/ftobarm.github.io>

## Skills

- Coding** C/C++, Python, R, Ruby, Bash, SQL.
- Machine Learning & Data science** TensorFlow, PyTorch, Pandas, Scikit-learn, R.
- IT Operations** GNU/Linux, Apache, Nginx, MariaDB, PostgreSQL.
- Software Development** Ruby On Rails, Django, HTML5, JavaScript, Git.

## Languages

- Spanish **Native**  
English **Advanced**

TOEIC Score 915

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## Education

- 2017–current **Universidad Técnica Federico Santa María,** Valparaíso,  
Chile, Msc. in Computer Engineering.
- 2013–2019 **Universidad Técnica Federico Santa María,** Valparaíso,  
Chile, Bsc. in Informatics Engineering.

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## Teaching Assistant

- 2018 **Computer Network**, 1 semesters, UTFSM.
- 2016-2018 **Operating Systems**, 3 semesters, UTFSM.
- 2017 **Computational Statistics**, 1 semesters, UTFSM.
- 2016 **Algorithms and Complexity** , 1 semesters, UTFSM.
- 2016-2017 **Architecture and Computer Organization** , 2 semesters, UTFSM.
- 2016 **Discrete structures**, 1 semesters, UTFSM.
- 2015-2016 **LabComp**, 3 semesters, UTFSM.
- 2014 **Computer programming**, 1 semester, UTFSM.