

## PERSONAL INFORMATION



## Lucas Montesinos

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Sex Male | Date of birth 26/05/1989 | Nationality Chilean

## PERSONAL SUMMARY

Electrical engineer master student from TU Delft looking after signal processing and machine learning projects. Work experience in failure diagnostic and prognosis in the mining industry and software solutions.

## EDUCATION

2016-Today

**MSc. Electrical Engineering Track Signals and Systems**

TU Delft

- Statistical Digital Signal Processing and Modeling
- Digital Audio and Speech Processing
- Machine Learning
- Applied Convex Optimization

2008-2014

**BSc. Electrical Engineering (highest award)**

Universidad de Chile

- Advanced Control of Systems
- Radio wave Propagation and Wireless Communications
- Speech Processing in Telecommunication

## WORK EXPERIENCE

October 2014-2016

**Project engineer**

Contac Ingenieros Ltda

- Statistical modelling design using **PCA** (principal component analysis) for failure diagnostic in SAG mills.
- Design and implementation of virtual sensors for KPI. Statistical modelling using **PLS** (partial least square), **SBM** (similarity based modeling) and **PSO** (particle swarm optimization).
- Software development. Applications implemented in **.NET** framework for automation of Excel reports and data analysis.
- Course planification and teaching experience in statistics and software products (SCAN).

Business or sector Mining, Data analysis, pattern recognition.

March-July 2014

**Teaching assistant**

Universidad de Chile - Information and Communication Technologies Lab

- Lab experiences preparation.
- Projects with RFID (Radio frequency identification), VLC (visual light communication) and QAM (quadrature amplitude modulation).

Business or sector University.

December-January  
2012/2013

**Internship**

Visionaria S.A

- IP cameras configuration.
- Fiber optic cables handling

Business or sector Security, IP cameras for public sector.

## PERSONAL SKILLS

Mother tongue(s) Spanish

Other language(s)	UNDERSTANDING		SPEAKING	WRITING
	Listening	Reading		
English	C2	C2	C1	C1

TOEFL iBT. 95 points

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Communication skills

- Good communication skills gained through my experience in dealing with customers in mining projects.
- Teaching experience in work and in university.

Organisational / managerial skills

- Good team skills gained in projects involving different areas of expertise.

Computer skills

- MATLAB - Advanced.
- .NET, PERL- Intermediate.
- Python, R, C#, Android - Basic.

Personal skills

- Structured thinking
- Critical analysis.
- Organized.

## Publications

Conference

- **L. Montesinos**, J.P Rodriguez, M. Orchard , S. Eyheramendy , “**Sentiment analysis and prediction of events in TWITTER**”, 2015 CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies (CHILECON), IEEE pages 903-910.