

RODRIGO S. ULLOA

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ACADEMIC BACKGROUND

- Aug. 2017 – Present **Ph.D. Student in Industrial Engineering.** Cumulative GPA: 3.6/4.0
Arizona State University
School of Computing, Informatics & Decision Systems Engineering
Relevant Coursework: *Optimization I, Optimization II, Mathematical Statistics, Probabilities and Stochastic Processes, Data Science for System Informatics, Statistical Learning for Data Mining.*
- 2015 – 2016 **Master of Science in Industrial Engineering.** Cumulative GPA: 6.1/7.0
Summa Cum Laude. Thesis: Effects of Technology Investment in Performance Based Maintenance Contracts
Pontificia Universidad Católica de Chile - Faculty of Engineering
- 2009 – 2016 **Industrial Engineering with a Major in Mechanical Engineering**
Pontificia Universidad Católica de Chile - Faculty of Engineering
- 2009 – 2015 **Bachelor in Engineering Sciences**
Pontificia Universidad Católica de Chile - Faculty of Engineering

CONFERENCES

- Nov. 2015 **INFORMS ANNUAL MEETING 2015**
Ulloa, R.; Mac Cawley, A.; Pascual, R.; Santelices, G. *Fixed Entry Cost Effect on Contract Length and Renewals in a Maintenance Service Contract Systems.* INFORMS ANNUAL MEETING 2015 – PHILADELPHIA.
- Nov. 2018 **INFORMS ANNUAL MEETING 2018**
Flores, H.; Villalobos, R.; Ulloa, R. *A Stochastic Framework for Designing Complementary Agricultural Supply Chains.* INFORMS ANNUAL MEETING 2018 – PHOENIX.

WORK EXPERIENCE

- Jan. 2019 – Present **RESEARCH ASSISTANT AT ARIZONA STATE UNIVERSITY**
Conducting research under the guidance of Dr. Rene Villalobos. I have been working on implementing and developing optimization models to help decision makers at different level of planning. The research is being applied for Fresh Produce Supply Chains considering small size growers and perishable products.
- Aug. 2017 – Oct. 2019 **INDUSTRIAL ASSESSMENT CENTER AT ARIZONA STATE UNIVERSITY**
The Industrial Assessment Center (IAC) at Arizona State University performs energy efficiency, waste reduction and productivity improvement assessments for small manufacturing companies within Arizona, southern Nevada and west New Mexico.
- Jan. 2016 – Jul. 2017 **CONSULTANT FOR WALMART CHILE FOOD AND SERVICES (WAYS)**
WAYS is a food company in charge of producing the bread, cakes, proprietary frozen seafood and meat products for all Walmart Chile stores. The consultancy

focused on the implementation of Sales & Operation Planning practices for medium and long term planning, consisting in forecasting, planning and scheduling techniques in order to maximize capacity utilization and customer satisfaction.

Mar. 2015 – Dec. 2016 **PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE**
Faculty of Engineering
Teacher Assistant of the courses *Logistics and Supply Chain Management* and *Operations Management*

2011 – Jul. 2017 **PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE**
Faculty of Physics
Coordinator and Teacher Assistant of Teaching Laboratory *Physics for Sciences*

Dec. 2012 – Jan. 2013 **ADVANCED STEEL DETAILING (ASD)**
Independent Consultant
Analysis of the information flow inside the organization and integration of the new manufacturing division of the company.

RESEARCH PUBLICATIONS

- Ulloa, R. S., Mac Cawley, A. F., Santelices, G. A., & Pascual, R. (2018). *Technology investment effects in performance-based maintenance contracts*. International Journal of Production Research, 56(7), 2628-2645.

PROFESSIONAL SKILLS

Languages: Spanish (Native) and English
Software Handling: - Programming Languages: C#, Python, R, and Visual Basic.
- Optimization Software: Gurobi, CPLEX, AMPL.

OTHER EXPERIENCES

Aug. 2017 – Present Member of the ASU chapter of Institute of Operations Research and Management Sciences (INFORMS)

2014 – Jul. 2017 Vice-president of Neighborhood Committee

REFERENCES

- J. Rene Villalobos. Arizona State University. rene.villalobos@asu.edu / P: +1(480)965-0437
- Alejandro Mac Cawley Vergara. Pontificia Universidad Católica de Chile. amac@ing.puc.cl / P: +56(2)23544272.