

Charles Thraves

address: Beauchef 851 Of. 621, Santiago, Chile
email: cthaves@dii.uchile.cl, website: <https://cthaves.com/>

Current Position	Department of Industrial Engineering, University of Chile Assistant Professor	2017 - Present
Education	Massachusetts Institute of Technology Ph.D. in Operations Research	2012 - 2017
	University of Chile Master in Operations Management	2010 - 2011
	University of Chile Bachelor of Industrial Engineer	2005 - 2011
PhD Thesis	New Applications in Revenue Management Adviser: Georgia Perakis	2017
Master Thesis	Pricing Strategies with Strategic Consumers Adviser: José Rafael Correa	2011
Publications	On the Optimization of Pit Stop Strategies via Dynamic Programming Joint work with Carrasco, F. <i>Forthcoming - Central European Journal of Operations Research</i> , 2022, Springer	
	On the Resource Allocation for Political Campaigns Joint work with: Morales, S. <i>Production and Operations Management</i> , 2021, Wiley	
	On a Variation of Two-part Tariff Pricing of Services: A Data-Driven Approach Joint work with: Perakis, G. <i>MSOM</i> , 2021, INFORMS	
	Consumer Surplus Under Demand Uncertainty Joint work with: Coehn, M., and Perakis, G. <i>Production and Operations Management</i> , 2021, Wiley	
	The effect of correlation and false negatives in pool testing strategies for COVID-19 Joint work with: Basso, J. L., Salinas, V., Saure, D., and Yankovic, N. <i>Health Care Management Science</i> , 2021, Springer	
	Contingent Preannounced Pricing Policies with Strategic Consumers Joint work with: Correa, J. R., and Montoya, R. <i>Operations Research</i> , 2016, INFORMS	
Submitted Papers/Working Progress	Competition and Externalities in Green Technology Adoption Working paper with Perakis, G.	
	Own Brand: Who benefits from it? Working paper	

Political choice estimation using demographic and voters' topic opinions
Working paper with Piña, C.

**Refereed
Conference
Proceedings**

Competition and Externalities in Green Technology Adoption
2015 Sustainable Operations SIG, MSOM Toronto
2014 MSOM Seattle

Contingent Preannounced Pricing Policies with Strategic Consumers
2012 MSOM New York

Invited Talks

On the Resource Allocation for Political Campaigns Spring 2020
Catholic University, Santiago, Chile

On the Resource Allocation for Political Campaigns Spring 2019
University Adolfo Ibañez, Santiago, Chile

**Academic
Achievements**

Franz Edelman Award: "Analytics Saves Lives During the Covid Crisis in Chile"
2022
Best Student Paper at POMS: College of Supply Chain Management 2015
Ranked number one of the Master in Operations Management
Best teaching assistant of 2010 2011
Best teaching assistant of 2011 2012
Distinguish student during years 2005 - 2009
Gold medal in the national (Chilean) math olympics 2002

**Research
Internships**

University of Columbia Winter 2011
Worked with Nicolás Stier-Moses on a problem in games and optimization. Also audited two courses.

**Working
Experience**

Apple Summer 2015
Internship
Cupertino, CA
Develop an optimization tool to improve the supply chain process resulting in savings of several millions of dollars each coming year. The tool is able to solve formulate, solve, and output on-the-fly the different business rules of the problem in procurement meetings.

CODELCO Spring 2011
Advance Excel Course
Santiago, Chile
Teach as a private consultant the main tools of Microsoft Excel in ten classes, reviewing exercises to put in practice the wide range of functions, shortcuts, macros and other features that this software provides.

Falabella Summer 2009
Consultancy
Santiago, Chile
Worked on a model to predict sales of every store in Chile based on econometric regressions with specific independent variables for each of the stores.

Bank Itaú Chile Summer 2009
Internship
Santiago, Chile
Create a worksheet to value a derivative (Interest Rate Swap), considering the different financial calendars, interest rates and other specifications.

Teaching (University of Chile)	<i>Undergraduate:</i>		
	Probability [IN3141-1]	Spring 2022	
	Probability [IN3141-1]	Spring 2021	
	Probability [IN3141-1]	Fall 2021	
	Operations Management I [IN4703-1]	Spring 2020	
	Operations Management I [IN4703-2]	Fall 2020	
	Operations Management I [IN4703-2]	Spring 2019	
	Operations Management I [IN4703-2]	Fall 2019	
	Operations Management I [IN4703-1]	Fall 2018	
	Operations Management I [IN4703-1]	Fall 2018	
	Operations Management II [IN4704-2]	Spring 2011	
	<i>Graduate:</i>		
	Operations Management [IN75R-1] - MBA	Spring 2021	
	Operations Management [IN75R-1/DPDIIGDE05-1] - MBA	Spring 2020	
	Applied Methods for Data Analyses [IN5724-1]	Fall 2019	
Operations Management [IN75R-1] - MBA	Spring 2019		
Operations Management [IN75R-1/IN7A6-1] - MBA	Spring 2018		
<i>Executive Education:</i>			
Data Driven Decision Making - Certificate	Spring 2021		
Data Driven Decision Making - Certificate	Spring 2020		
Data Driven Decision Making - Certificate	Spring 2019		
Assistant teacher (MIT)	<i>Undergraduate:</i>		
	Optimization Methods in Management Science	Spring 2015	
	<i>Graduate: MBA</i>		
	Introduction to Operations Management	Fall 2015	
	<i>Graduate: LGO (Leaders for Global Operations)</i>		
	System Optimization and Analysis	Summer 2016	
	<i>Graduate: Executive-MBA</i>		
	Excel Class	Spring 2016	
	Assistant teacher (University of Chile)	<i>Undergraduate:</i>	
		Advance Excel Course	Fall 2012
Modeling and Optimization [IN3701]		Fall 2011	
Operations Research [IN3702]		Fall 2010	
Economics [IN2201-2]		Spring 2009	
Operations Research [IN3702]		Spring 2009	
Advance Excel Course		Spring 2009	
Economics [IN2201-2]		Fall 2009	
Operations Research [IN44A]		Fall 2009	
<i>Graduate: Master in Operations Management</i>			
Models and Algorithms of Optimization [IN77O-1]		Fall 2011	
Stochastic Models for Engineering Systems [IN79O-1]		Spring 2010	

Graduate: Master in Management for Globalization
Operations Management [IN7A6-1]
Operations Management [IN7A6-1]

Spring 2011
Spring 2010

Graduate: MBA
Advance Excel Course

Fall 2010

Computer Skills C, Java, Python, Julia, VBA, Matlab, R, Excel, AMPL, GAMS, SPSS, StatFit, Eviews, Arena

Languages **Spanish** Native
English Intermediate

Nationality **Chilean**