

ROSEMARIE SANTA GONZÁLEZ

Postdoctoral Fellow at Georgia Institute of Technology
Supply Chain and Logistics Chief of Staff at AI4OPT

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Citizenship: American (U.S.A.)

EDUCATION

PhD in Business Administration 2023

Business School - University of Quebec at Montréal, Canada

- Thesis: "Tactical Planning of Mobile Clinic Operations for Humanitarian Relief"
- Supervisors: Teodor Gabriel Crainic, Marilène Cherkesly, Marie-Ève Rancourt

M.Sc. Industrial Engineering: Systems Management 2015

University of Puerto Rico at Mayagüez

- Thesis: "Reducing Participants' Interferences at the World's Best 10K"
- Supervisors: Hector J. Carlo, Sonia Bartolomé, Mercedes Ferrer

B.Sc. Industrial Engineering 2014

University of Puerto Rico at Mayagüez

- Capstone Project: "American Red Cross – Preparedness Health and Safety Services Inventory Management System"
- Supervisor: Betzabe Rodríguez

CERTIFICATIONS

Project Management 2013

University of Puerto Rico at Mayagüez, Department of Industrial Engineering

Non-profit Management 2009

University of Puerto Rico at Mayagüez, Department of Continuous Education

TEACHING EXPERIENCE

Lecturer 2021 - 2022

Department of Analytics Operations and Information Technologies, ESG-UQAM

- MET4200A: Introduction to Operations Management (English)
- MET4200: Introduction to Operations Management (French)

Teaching Assistant	2017 - 2021
<i>Department of Analytics Operations and Information Technologies, ESG-UQAM</i>	
<ul style="list-style-type: none"> - MET3220: Operations Research (French) <i>corrector</i> - MET4261: Operations Management (French) <i>lab instructor, proctor and corrector</i> - MET8800: Optimization of Logistic Networks (French) <i>lab instructor and corrector</i> - MET4410: Resource planning and management (French) <i>lab instructor and corrector</i> 	
Teaching Assistant	2021
<i>Department of Logistics and Operations Management, HEC Montréal</i>	
<ul style="list-style-type: none"> - OPER1050E: Gestión de las Operaciones, OPER1050A: Operations Management, and OPER1050: Gestion des opérations <i>Translator (French to English and English to Spanish) and online forum moderator</i> 	
Lecturer	2020
<i>Department of Logistics and operations management, HEC Montréal</i>	
<ul style="list-style-type: none"> - OPER1050E: Operations Management (Spanish) <i>Lecturer, translator and corrector</i> 	
Teaching Assistant	2013 - 2014
<i>University of Puerto Rico, Department of Industrial Engineering</i>	
<ul style="list-style-type: none"> - ININ4010: Probability and Statistics for Engineers (English/Spanish) <i>lab instructor, proctor, and corrector</i> - ININ4009: Work Measurement (class laboratory) (English/Spanish) <i>create teaching materials, lab instructor, and corrector</i> 	
PROFESSIONAL EXPERIENCE	
Postdoctoral Fellow	2023
<i>Georgia Institute of Technology, Atlanta, GA, USA</i>	
<ul style="list-style-type: none"> - <i>Oversee projects as Supply Chain and Logistics Chief of Staff for the NSF's AI Institute for Advances in Optimization (AI4OPT)</i> 	
ESL Teacher (part-time)	2017 - 2022
<i>VIPKID, China</i>	
<ul style="list-style-type: none"> - <i>Teach English as a Second Language (ESL) to Chinese PK-12 students in an online classroom</i> 	
Preparedness, Health, and Safety Instructor	2010 - 2015
<i>American Red Cross PHSS, Puerto Rico</i>	
<ul style="list-style-type: none"> - <i>Train professionals, lay responders, and instructors on CPR, DEA, and First Aid</i> 	

Sales and Marketing Director 2014 - 2015
SBM Innovations LLC, Puerto Rico

- Develop marketing strategy for Scholar-Link, a school management software
- Identify and contact clients and maintain client relations

Professional Service Consultant (part-time) 2012 - 2014
HJ Carlo Consulting Group, Puerto Rico

- Develop and implement inventory system, reducing costs by \$65k for the Sonnell Transportation Company
- Manage end of year physical inventory for 2012 and 2013 for the Sonnell Transportation Company

PUBLICATIONS

R. Santa-Gonzalez, T.G. Crainic, M. Cherkesly, M.-È. Rancourt, (2023) Mobile Clinic Deployment: A Multiperiod Location Problem Application. *Computers & Operations Research*

R. Santa-Gonzalez, T.G. Crainic, M. Cherkesly, M.-È. Rancourt, (2022) Analysis of Mobile Clinic Deployments in Conflict Zones. Submitted - Accepted in *Journal of Humanitarian Logistics and Supply Chain Management*

C. Sotelo, C. Monardes-Concha, F. Pérez-Galarce, **R. Santa González**, (2021) An optimization model for planning of emergency shelters after a tsunami. Second round in *Socio-Economic Planning Sciences*

R. Santa González, T.G. Crainic, M. Cherkesly, M.-È. Rancourt, (2023) A Stochastic Prize Collection Methodology for Mobile Clinic Deployment Planning. In preparation - Target Journal: *Transportation Research: Part E*

R. Santa-González, H.J. Carlo, M. Ferrer (2015) Estimating Finish Times For The World's Best 10k Race, *Dimension del Colegio de Ingenieros y Agrimensores de Puerto Rico (CIAPR)*

R. Santa-González, H.J. Carlo, M. Ferrer (2014) Improving Corral Assignments in Puerto Rico's World's Best 10K Race, *Institute of Industrial Engineers 2014 Annual Conference Proceedings*

WORKSHOPS AND PHD SCHOOLS

Material Handling Teachers Institute 2022
Refereed admittance
University of Buffalo, New York USA

Optimization Under Uncertainty 2021
Centre de Recherche Mathématiques, Montréal Canada

Latin-American Summer School in Operations Research (ELAVIO) 2019
Universitat de Lleida, Lleida, Spain

L'aide multicritère á la décision : méthodes, applications, logiciels, développements innovants 2019
GERAD-IVADO, Montréal, Canada

Advances in Operations Research Applied to Transportation and Logistics 2019
Refereed admittance sponsored by the National Science Foundation (NSF)
Loyola University, Chicago USA

ORMS Scientific Writing Activity 2018 - 2019
GERAD-CIRRELT-MORSC, Montréal, Canada

ORMS Scientific Writing Activity <i>GERAD-CIRRELT-MORSC, Montréal Canada</i>	2017 - 2018
Rural Logistics PhD School <i>Refereed admittance</i> <i>Norwegian School of Economics, Bergen Norway</i>	2018

AWARDS AND FELLOWSHIPS

Bourse reliée à la publication d'articles scientifiques <i>Centre sur l'intelligence² en gestion de systèmes complexes (CRI²GS)</i>	2021
Bourse de formation à la recherche <i>École des sciences de la gestion - Université du Québec à Montréal</i>	2020
Best Oral Presentation <i>4th GERAD Students Day</i>	2020
Bourse d'excellence <i>Centre sur l'intelligence² en gestion de systèmes complexes (CRI²GS)</i>	2019
Best Oral Presentation <i>ORMS Scientific Writing Activity, Montréal Optimization Days</i>	2019
Extended Abstract Honorable Mention <i>ORMS Scientific Writing Activity, Montréal Optimization Days</i>	2019
Best Oral Presentation <i>ORMS Scientific Writing Activity, Montréal Optimization Days</i>	2018
Bourses d'exonération des droits majorés <i>University of Quebec at Montréal, Canada</i>	2016
Industrial Engineering Outstanding Student <i>University of Puerto Rico at Mayagüez, Department of Industrial Engineering</i>	2015

SCIENTIFIC PRESENTATIONS

R. Santa-González, T.G. Crainic, M. Cherkesly, M-È Rancourt (2022), *A Stochastic Prize Collection Methodology for Mobile Clinic Deployment Planning*, Data Science for 4Decision Making (DS4DM) Coffee Talks, Montréal

R. Santa-González, T.G. Crainic, M. Cherkesly, M-È Rancourt (2022), *A Stochastic Prize Collection Methodology for Mobile Clinic Deployment Planning*, Journées de l'optimisation 2022, Montréal

R. Santa-González, T.G. Crainic, M. Cherkesly, M-È Rancourt (2022), *A Stochastic Prize Collection Methodology for Mobile Clinic Deployment Planning*, Odysseus 2021 (2022), Morocco

R. Santa-González, T.G. Crainic, M. Cherkesly, M-È Rancourt (2021), *Mobile Clinic Deployment Under Uncertainty: The Stochastic Multiperiod Prize Collection Problem*, 2021 INFORMS Annual Meeting (Virtual), 2021 DSI Annual Conference

R. Santa-González, T.G. Crainic, M. Cherkesly, M-È Rancourt (2021) *Mobile Clinic Deployment: A Multi-period Location Problem Application*, 2021 POMS 31st Annual Conference (Virtual)

R. Santa-González, T.G. Crainic, M. Cherkesly, M-È Rancourt (2020) *Mobile Clinics Deployment for Humanitarian Relief: A multi-period location routing problem*, Poster Session at the 12th Annual Conference on

Health Humanitarian Logistics (Online)

R. Santa-González, T.G. Crainic, M. Cherklesly, M-È Rancourt (2020), *Mobile Clinic Deployments for Humanitarian Relief*, New OR PhDs Micro-Event, Canadian Operations Research Society (Virtual)

R. Santa-González (2020) The Operations Research Challenge 2020 Invited Keynote Speaker, canceled due to COVID-19

R. Santa-González (2020) *Webconference : L'humanitaire: écarts et incohérences entre pratiques et politiques*, Observatoire canadien sur les crises et l'action humanitaires

R. Santa-González (2019) *Operations Research and Management Science in Humanitarian Logistics: A Mobile Clinic Application*, Midi Humanitaire, L'observatoire canadien sur les crises et l'action humanitaires (OCCA), Montréal

R. Santa-González, T.G. Crainic, M. Cherklesly, M-È Rancourt (2019) The Multiperiod Location Routing Problem: A Mobile Clinic Application, ELAVIO 2019, Universitat de Lleida, Spain

R. Santa-González, T.G. Crainic, M. Cherklesly, M-È Rancourt (2019) The Multiperiod Location Routing Problem: A Mobile Clinic Application, CORAL Seminar, Aarhus School of Business and Social Sciences, Denmark

R. Santa-González, T.G. Crainic, M. Cherklesly, M-È Rancourt (2019) The Multi-Objective Multiperiod Location Routing Problem: A Mobile Clinic Application, Journées de l'optimisation 2019, Montréal

R. Santa-González, T.G. Crainic, M. Cherklesly, M-È Rancourt (2018) A Mathematical Model for Mobile Clinic Site Evaluation in War Zones, Journées de l'optimisation 2018, Montréal

R. Santa-González, T.G. Crainic, M. Cherklesly, M-È Rancourt (2017) A Review of Health Logistics in War zones, Journées de l'optimisation 2017, Montréal

R. Santa-González, W. Alvarez, Y. Martinez (2015) A Mathematical Model for Designing Self- Sufficient Vegetable Gardens, Journées de l'optimisation 2016, Montréal

R. Santa-González, H.J. Carlo, M. Ferrer (2014), Improving Corral Assignments in the Puerto Rico's World's Best 10K Race, IIE Annual Conference 2014, Puerto Rico

SERVICE

Seth Bonder Camp Coordinator <i>AI4OPT's data science summer camp for high school students</i>	2023...
<ul style="list-style-type: none">- Coordinate logistics for Level 1 and Level 2 camps at Georgia Tech- Oversee teaching assistants and high school mentors- Onsite manager during camps	
Communicating ORMS Committee Member <i>ORMS Scientific Writing and Presenting Activities</i>	2020 - 2022
<ul style="list-style-type: none">- Coordinate meetings and workshops- Coach participants on articles and presentation preparation	
Python for Operations Research Coordinator and Facilitator <i>Series of four Python workshops for researchers in the field of ORMS</i>	2020 - 2022
<ul style="list-style-type: none">- Coordinate meetings and workshops- Prepare written materials- Video editing for Youtube	

- Humanitarian Logistics Exchange Coordinator** 2019 - 2021
Humanitarian Logistics Research Group
- Follow-up on research conducted by group members
 - Coordinate seminars open to the community (three)
- Student Seminar Coordinator** 2018 - 2020
Groupe d'études et de recherche en analyse des décisions (GERAD)
- Identify relevant topics for student researchers
 - Coordinate seminars and workshops (30)
- Vice-présidente des Finances** 2019 - 2020
Association d'étudiantes de PhD en Administration (AéPHDA)
- Management and Bookkeeping of Finances
- Social Media Director and Event Volunteer** 2017 - 2018
The Operations Research Challenge, Concordia University
- Design and direct social media campaigns
 - Logistic Volunteer on the day of the event
- Marketing Director** 2017 - 2018
Montréal Operations Research Student Chapter, INFORMS
- Design and direct social media campaigns
 - Creator and organizer of MORSC's #TwitterTuesdays

SOFTWARE PROFICIENCY

Cplex, LaTeX, Visual Studio Code, Git, Final Cut Pro X, Suite MS Office, iWork, Linux, QGIS, Arena, Simul8, Simio, MS Project, C++, AMPL, Bash, Shell, Python

LANGUAGES

Spanish	Native
English	Native
French	Proficient