

Andres Garcia-Arce

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EDUCATION

Ph.D., Industrial Engineering. University of South Florida, Tampa, Florida. Spring, 2017.

- Dissertation: “Strategies for Reducing Preventable Hospital Readmissions on Medicare Patients”
- Advisor: Professor José L. Zayas-Castro Ph.D.
- Areas of Study: Data Analytics, Healthcare Systems Engineering and Optimization.

M.I.E., Industrial Engineering. University of South Florida, Tampa, Florida. Fall 2013.

M.S.Ed., Educational Sciences. [*Ciências da Educação*]. Universidade de Lisboa, Lisboa, Portugal. Fall 2012.

M.S.Ed., Media Educational Engineering. [*Ingénierie des Médias pour l'Education*]. Université de Poitiers, Poitiers, France. Fall 2012.

M.S.Ed., Strategies and Technologies for teaching in the multicultural society. [*Máster Universitario en Estrategias y Tecnologías para la función docente en la sociedad multicultural*]. Universidad Nacional de Educación a Distancia, Madrid, Spain. Fall 2012

- Thesis: “A Framework to develop and assess IT competencies in high school teachers in Spain”.

B.S. Engineering Sciences. [*Licenciatura Ciencias de la Ingeniería*]. Universidad de La Frontera, Temuco, Chile. (Fall 2009)

- Graduated with Highest Distinction.

PUBLICATIONS

Published or accepted journal articles.

1. **“A Metaheuristic-Based Stacking Model For Predicting The Risk Of Patient No-Show And Late Cancellation For The Neurology Appointments.”** Ehsan Ahmadi, [Andres Garcia-Arce](#), Dale T. Masel, Eric Reich, Jason Puckey, Rebecca Maff. In Press (July 2019). IISE Transactions in Healthcare Systems Engineering. DOI: 10.1080/24725579.2019.1649764
2. **“Comparison of machine learning algorithms for the prediction of preventable hospital readmissions”.** [Garcia-Arce, Andres](#); Rico, Florentino; Zayas-Castro, Jose L.. Journal for Healthcare Quality. (2017). doi: 10.1097/JHQ.0000000000000080
3. **“Interventions as an alternative to penalties in preventable readmissions”.** [Andres Garcia-Arce](#), Jose L. Zayas-Castro. Journal of Hospital Administration. (2015) Volume 4 (3), pp:70-78, 2015. ISSN:1927-6990 / 1927-7008 (online).
4. **“A User Assessment to Inform Health Information Exchange Design and Implementation”.** Alexandra Strauss, Diego Martinez, [Andres Garcia-Arce](#), Stephanie Taylor, Candice Mateja, Peter Fabri, Jose L. Zayas-Castro. BMC Medical Informatics and Decision Making. (2015). Volume 15 (1), doi:10.1186/s12911-015-0207-x
5. **“Innovation Network: Videoconferencing as a Resource in Teaching Support and Autonomous Learning”.** Ana Martin-Cuadrado, M. Angeles Lopez-Gonzalez, [Andres Garcia-Arce](#). IEEE Revista Iberoamericana de Tecnologías del Aprendizaje. (2013). ISSN: 1932-8540.

Peer Reviewed conference proceedings.

6. **“E-learning devices to train high school teachers in IT: A Spanish Experience”** [*Dispositivos e-learning de Formación de Formadores en TIC: Una experiencia Española*]. [Andres Garcia-Arce](#), Ana Martin-Cuadrado, Julio Real Garcia. In Proceedings of Congreso Iberoamericano Educacion y Sociedad. La Serena, Chile. 2011. ISBN: 978-8138-017-0
7. **“FICAeTV: A multimedia platform for the University”** [*FICAeTC: Plataforma Multimedia Universitaria*]. Jaime Bustos, [Andres Garcia-Arce](#), Armin Lüer, Daphne Bormann, Barbara Venegas, Francisco Vidal. In proceedings of Encuentro de Informática y Gestión, Temuco, Chile. 2009. ISSN:1613-0073

Working papers.

8. **“Improving forecast of inpatient bed demand in a rural hospital by using machine learning algorithm”**. Qianyu Hu, Andres Garcia-Arce, Susie Yin, Eric Reich, Jason Puckey, Soundar Kumara. To be submitted to IISE transactions in Healthcare Systems Engineering. Fall 2019
9. **“Policy Design to Reduce Preventable Readmissions in the U.S. Medicare Patients”**. Andres Garcia-Arce, Jose L. Zayas-Castro. *To be submitted to Journal of Hospital Administration*. Fall 2019.
10. **“Stacking machine learning models for the prediction of no-shows in outpatient neurological appointments”**. Andres Garcia-Arce, Ronald W. Dravenstott, Rebecca Price, Jason Puckey. To be submitted to Medical Care. Fall 2019
11. **Prediction of Acute Kidney Injury - A Systematic Literature Review**. Andres Garcia-Arce, Waleed Zafar, Yirui Hu, Sara J. Kwiecien, Gurmukteshwar Singh, Sara. Saunders, Ion D. Bucaloiu, Lester Kirchner, Kevin Ho. To be submitted in Fall 2019.
12. **Machine Learning Based Model for the prediction of Severe Acute Kidney Injury on inpatients**. Andres Garcia-Arce, Les Kirchner, Rebecca Price, Eric Reich, Jason Puckey, Kevin Ho, Gurmukstar Sing. To be submitted in Spring 2020.
13. **Machine Learning Based Forecast For The Prediction Of Inpatient Bed Demand**. Pedro Perez, Andres Garcia-Arce, Shi Susie Yin, Eric Reich, Jason Puckey, Rebecca Maff, Felipe Feijoo, Sauleh Siddiqui. To be submitted on Fall 2019

PROFESSIONAL & RESEARCH EXPERIENCE

Research Associate. Geisinger Health System. Dec 2016-Current.

Role: Co- Principal Investigator

Project: A Machine Learning Model to Predict Adult Inpatient Death, cardiac Arrest and ICU transfer. GHS-IRB#: 2017-0164
PI: Dr. John Keith McIlwaine, MD, MBA.

Role: Data Scientist / Co-investigator

Project: AKI to ESRD e-Prediction. (Geisinger Quality Fund - 2 year grant)
PI: Dr. Kevin Ho. MD

Role: Investigator

Project: Prediction of no-shows and cancellation within 7 days of neurological appointments. GHS-IRB#: 2017-017

Role: Principal Investigator

Project: Prediction model for 30-day hospital readmission using ensembles of machine learning models.
GHS-IRB#: 2017-0290

Role: Principal Investigator

Project: Identifying surgery delays and their effect on mortality in Septic shock patients.
GHS-IRB#: 2017-0398

Role: Collaborator

Project: A Multidisciplinary Approach To Identifying Patients At Risk For Severe Sepsis & Septic Shock Prior To Hospitalization
GHS-IRB: 2014-0242
PI: Shravan Kethireddy, MD

Role: Co-Principal Investigator

Project: Artificial Neural Networks for the Prediction of Inpatient Bed Demand.
GHS-IRB#: 2017-089

Role: Qualitative analysis consultant

Project: Survey development for outpatient nutrition assessment.
Collaboration: Clinical Nutrition at GHS.

Research Associate – Tampa General Hospital. Fall 2013-Fall 2017.

Role: Principal Investigator

Project: Validation of predictive models for preventable hospital readmissions. IRB#Pro00028632

Role: Principal Investigator - Data Analyst.

Project: “Risk Factors for Exit site infection in patients undergoing Mechanical Circulatory Support”
IRB#Pro00016375
Collaboration: Transplant Unit. Spring 2014 – Spring 2015

Role: Industrial Engineer and Instructional Design.

Project: “E-Learning safety training modules in the use of intraoperative MRI for anesthesiologists and Neurosurgeons”
Collaboration: CT/MRI Department. Spring 2014.

Role: Co-Investigator – Qualitative Analysis.

Project: “Health Information Exchange: The impact on clinical care at Tampa General Hospital”.
IRB#Pro000014574
Collaboration: Internal Medicine Department. Fall 2013 – Fall 2015.

Role: Data Analysis.

Project: “Incidence and risk factors for alterations in the hemostasis in Mechanical circulatory support”.
IRB#Pro000014947
Collaboration: Transplant Unit. Fall 2013 - Spring 2014.

Graduate Research Assistant. Universidad Nacional de Educación a Distancia. Fall 2010 - Fall 2012.

Role: Graduate Research Assistant – IT support and Grant Writing.

Project: “Profile and Curriculum for the social educator based in popular education principles” Project
Funded by
Collaboration: Universidad de El Salvador, Universidad Nacional de Educación a Distancia, Universidad de La Frontera. Fall 2011-Fall 2012.

Role: Graduate Research Assistant – IT Support, Web Designer/Manager and Data Analysis.

Project: “UVUNED. Videoconference as a resource in teaching support and autonomous learning”.
Collaboration: Utah Valley University and Universidad de Educación a Distancia. Spring 2010-Fall 2012.

Role: Graduate Research Assistant – IT Support and Data Analysis.

Project: “ MIMETIC. E-learning system to train teachers and professors in IT competencies”
Collaboration: Université de Poitiers and Universidad de La Frontera. Spring 2011 – Fall 2012.

Grant Proposal Writing Experience:

“Geisinger’s Early Warning Score (GEWS) To Improve Care For Critical Patients”

Agency – Geisinger Health Plan / Geisinger Clinic Quality Pilot Fund (QFP) FY2020 (\$569,519)
Role: PI. Proposal Writing.
In collaboration with John K. McIlwaine, DO, MBA as Co-PI.

“Suncoast Practice Transformation Network”. PI: Jay Wolfson.

Agency – FOA: Centers for Medicare and Medicaid Services - Transformational Practice Network.
(\$16.252.000).
Role: Assistance in conceptualization and Writing the proposal, with an emphasis in the evaluation methods chapter. With Jose L. Zayas-Castro as Co-PI.
In collaboration with USF Health. Spring 2015.

“Design Guidelines for HIE Explicitly Considering Inter-Hospital Transfers”.

PI: Jose L. Zayas-Castro.
Agency: Agency for Healthcare Research and Quality AHRQ. (R21). Amount: \$300.000
Role: Conceptualization and wrote a grant proposal. Fall 2014.

“The Suncoast Heart Health PCOR Accelerator Collaborative”.

PI: Jay Wolfson.
Agency: Agency for Healthcare Research and Quality AHRQ. (R18). Amount: \$14.000.000
Role: Conceptualization and wrote evaluation plan in grant proposal with Jose L. Zayas-Castro as Co-PI.
In collaboration with USF Health. Fall 2014.

“FICAeTUTOR – Audiovisual online educational material for engineering students”.

PI: Karin Obreque.
Agency: Chilean Ministry of Education. Institutional Development Fund FDI. Chile. Amount:\$8.000 (Granted)
Role: Conceptualization and writing of the first draft. Fall 2012.

“Profile and curriculum for the social educator based in popular education principles”.

PI: Ana Martin-Cuadrado.
Agency: Spanish Agency for International Cooperation and Development AECID – Program of International Cooperation PCI. Amount: \$30.000 (Granted).
Role: Coordination of writing and development of the final proposal and budget.
In collaboration with Universidad de El Salvador (El Salvador), Universidad Nacional de Educación a Distancia (Spain) and Universidad de La Frontera (Chile). Fall 2011.

“FICAeTV. Online Channel for the College of Engineering”.

PI: Andres Garcia-Arce.

Agency: Chilean Ministry of Education. Institutional Development Fund FDI. Chile. Amount:\$8.000 (Granted)

Role: Conceptualization and Writing of proposal. PI and Grant Manager. Fall 2008.

Undergraduate Research Assistant. Universidad de La Frontera. Fall 2008- Fall 2010.

Role: Grant Manager – Principal Investigator.

Project: “FICAeTV. The online tv channel for Universidad de La Frontera”.
Universidad de La Frontera. Fall 2008 – Fall 2010.

Role: Grant Manager.

Project: “An electronic repository of Theses based on DSpace”.
Universidad de La Frontera. Fall 2009 – Summer 2010.

Other Experience:

Role: Web Developer and IT coordination.

Creatives Cities Conference. SOC MEDIA Research Group. Spain.

Development of a web page and management. IT support during the conference.

Role: IT developer.

Furniture factory CasaGrande. Chile.

Technical feasibility tests for a wireless monitoring system inside the factory.

INSTRUCTIONAL/STUDENT LEARNING EXPERIENCE

Instructor:

Introduction to Linear Systems. University of South Florida. Summer 2015.

Delivered to Industrial engineering, computer sciences engineering and mechanical engineering students.

Presential and Online sections (+60 Students).

Teaching Assistant:

University of South Florida. Fall 2012 – Fall 2016.

Capstone Design (Industrial Engineering Students), Facility Design and Cost Analysis. (Industrial Engineering Students).

Universidad de La Frontera. Chile. Spring 2007 – Spring 2010.

Courses: Calculus 1, Electro Magnetism, Moderns Physics, Programming with C++, Operations Research.

INVITED LECTURES

2011 – 2nd Seminar on International Mobility. Universidad de La Frontera, Temuco, Chile.

Topic: “Erasmus mundus experience.”

2015 – Guest lecture for the class: Operations Research. Universidad de La Frontera, Temuco, Chile.

Topic: “Reducing preventable hospital readmissions”.

2017 – Guest lecture for the class: Service System Engineering. The Pennsylvania State University, State college, PA.

Topic: “Healthcare systems engineering – My experience in Geisinger”.

2018 - Guest Lecture. Invited by ISERC chapter at Binghamton University, NY.

Topic: “Healthcare systems engineering”

2018 – Guest Lecture. Operations Research OR 590. The Pennsylvania State University, State college, PA.

Topic: “Healthcare systems engineering – My experience in Geisinger two years after”.

HONORS AND AWARDS

2006 - “Juan Gomez Millas” Scholarship for Undergraduate Studies. Chilean Ministry of Education.

Academic Excellence. Last five years or until graduation.

2009 - EUROMIME Scholarship for Master studies. Educational, Audiovisual and Culture Executive Agency – European Union.

Only awarded worldwide to 20 candidates yearly. Duration of the program is two years.

Requires presential studies in Université de Poitiers (France), Universidade de Lisboa (Portugal) and Universidad Nacional de Educación a Distancia (Spain).

2012 - Graduate Fellowship from the Graduate School, University of South Florida.

It covers tuitions and stipend for one academic year.

2013 to 2016 - Conference Presentation Grant in several occasions. Student Government – University of South Florida.

It covers travel and registration for conference presentations.

2017 - Judith Liebman Award - Institute For Operations Research and Management Sciences INFORMS.
Awarded to “Moving Spirits” within INFORMS student Chapters at a National Level.

CONFERENCE PRESENTATIONS

2019 – “Prediction of Hospital Demand: A Recurrent Neural Network Approach”.

Qianyu Hu, Shi Susie Yin, Andres Garcia-Arce, Eric Reich, Jason Puckey, Soundar Kumara.
Institute For Operation Research and Management Sciences (INFORMS) Healthcare Meeting 2019.
Cambridge, MA. July 28th

2018 – “Geisinger Early Warning Score”

Andres Garcia-Arce, John K. McIlwaine, Eric Reich, Jason Puckey, Rebecca Maff.
Institute For Operation Research and Management Sciences (INFORMS) Annual Meeting 2018.
Phoenix, AZ. October 22th

2018 – “Risk Factors For Acute Kidney Injury in High-risk populations: Systematic Review and Meta-analyses”

Waleed Zafar, Andres Garcia-Arce, Yirui Hu, Sara J. Kwiecien, Gurmukteshwar Singh, Sara. Saunders, Ion D. Bucaloiu, Mohamed Taher, Lester Kirchner, Kevin Ho.
Kidney Week. American Society of. Nephrology. October 23rd – 28th, San Diego, CA.

2017 – “Stacking Machine Learning Models for the Prediction of No-shows in Outpatient Neurological Appointments”

Andres Garcia-Arce, Akshit Agrawal, Jason Puckey, Ron Dravenstott.
Institute For Operation Research and Management Sciences (INFORMS) Annual Meeting 2017.
Houston, TX. October 22th.

2017 - “Neurology No-Show and Cancellations.”

Andres Garcia-Arce, Akshit Agrawal, Ron Dravenstott.
2017 Geisinger Enterprise Analytics Conference. Danville, PA. April 6th.

2016 – “Hospital Preventable Readmissions and Interventions in Medicare Patients”

Andres Garcia-Arce, Jose L. Zayas-Castro.
Institute For Operation Research and Management Sciences (INFORMS) Annual Meeting 2016.
Nashville, TN. November 16th.

2015 – “Decision Tree Based Method for Prediction of Preventable Readmissions in Acute Myocardial Infarction”

Andres Garcia-Arce, Jose L. Zayas-Castro.
Institute For Operation Research and Management Sciences (INFORMS) Annual Meeting 2015. Philadelphia, PA.
November 4th.

2014 – “Interventions as an Alternative to Penalties in Hospital Preventable Readmissions”

Andres Garcia-Arce, Jose L. Zayas-Castro.
Health Systems Optimization Workshop. Chicago, IL. USA. September 12th.

2014 – “Health Information Exchange impact on care in a public hospital”

Alexandra Strauss, Diego Martinez, Andres Garcia-Arce, Candice Mateja, Stephanie Taylor, Peter Fabri, Jose L. Zayas-Castro.
Institute of Industrial Engineers (IIE) Annual Meeting and Industrial and Systems Engineering Research Conference (ISERC). May. Montréal, Canada.

2013 – “Optimization model and decision support to implement health interventions to diminish readmissions”

Andres Garcia-Arce, Jose L. Zayas-Castro.
Institute For Operation Research and Management Sciences (INFORMS) Annual Meeting 2013. Minneapolis, MN.
October 16th.

2013 – “Interventions as an alternative to penalties in preventable readmissions”.

Andres Garcia-Arce, Jose L. Zayas-Castro.
Poster presentation in Research Day. University of South Florida. Tampa. November 6th.

2012 – “E-learning devices to train high school teachers in IT in Spain. An exploratory study” [*Formación de formadores en TIC como una experiencia española. Un estudio exploratorio*].

Andres Garcia-Arce, Ana Martin-Cuadrado, Julio Real.
VI International Conference on Digital exclusion in the Information and Knowledge Society (SEMIME) [*Conferência Internacional sobre Exclusão Digital na Sociedade da Informação e do Conhecimento*]. Lisboa, Portugal. January.

- 2011 – “The videoconference as a teaching resource in the autonomous learning”** [*La videoconferencia como recurso en el apoyo tutorial al aprendizaje autónomo*].
Ana Martín-Cuadrado, M. Angeles Lopez-Gonzales, [Andres Garcia-Arce](#).
International Conference of technology for the education and the knowledge. Madrid, Spain. July.
- 2011 – “E-learning devices to train high school teachers in IT in Spain. An exploratory study”** [*Formación de formadores en TIC como una experiencia española. Un estudio exploratorio*].
[Andres Garcia-Arce](#), Ana Martín-Cuadrado, Julio Real.
Iberoamerican Conference of Education and Society (CIEDUC) [*Congreso Iberoamericano de Educación*]. La Serena, Chile. September.
- 2011- “LIA-DIS: Playground to create new innovators”** [*LIA-DIA: Playground para la creación de Innovadores*]
Von Jentschyk, F., [Garcia-Arce, A.](#)
Latin-American conference of industrial engineering students and related. (ALEIIAF) [*Asociación Latinoamericana de Estudiantes e Ingenieros Industriales y Afines*]. September, 11th.
- 2011 – “The videoconference as a teaching resource in the autonomous learning”** [*La videoconferencia como recurso en el apoyo tutorial al aprendizaje autónomo*].
Ana Martín-Cuadrado, M. Angeles Lopez-Gonzales, [Andres Garcia-Arce](#).
Iberoamerican Conference of Education and Society (CIEDUC) [*Congreso Iberoamericano de Educación*]. La Serena, Chile. September.
- 2009 – “Hierarchical Networks Design with special constraints”**
Felipe Feijoo, [Andres Garcia-Arce](#), Jaime Bustos.
VIII Chilean conference of operational research (OPTIMA) Chillan, Chile.
- 2009 – “FICAeTV: A multimedia platform for the University”** [*FICAeTC: Plataforma Multimedia Universitaria*].
Jaime Bustos, [Andres Garcia-Arce](#), Armin Lüer, Daphne Bormann, Barbara Venegas, Francisco Vidal. In Encuentro de Informática y Gestión, Temuco, Chile.

CERTIFICATIONS AND OTHER PROFESSIONAL DEVELOPMENTS

Academic Courses:

Computer Simulation, Stochastic Decision Models I, LP & Network Optimization, Integer Programming, Microeconomics II (Game theory), Statistical Decision Models, Advanced Analytics I, Advanced Analytics II, Survival Analysis, Bayesian Data Analysis, Generalized Linear Models, Multivariate Analysis, Intermediate SAS, Probability Theory, Real Analysis, Human Error and Patient Safety, Epidemiological study design and protocol development, Lean Six Sigma.

Professional Training courses:

First Aids (32 hours), Biomedical Investigator And Key Personnel (Stage 1), Social/Behavioral Investigator And Key Personnel (Stage 1), Responsible Conduct Of Research For Engineers (Stage 1), Biomedical Responsible Conduct Of Research, Responsible Conduct Of Research For Administrators, Social/Behavioral Responsible Conduct Of Research, Cancer Disparities.

SKILLS

Languages:

Spanish: Native.

French: Conversational.

English: Fluent.

Portuguese: Excellent

Technical Skills: *Quantitative analysis:* Regression, Classification, Clustering, Text mining, Forecasting, Survival Analysis (including methods such as GLM, SVM, Neural Network, RF, GBM, WSRF, PH model, TF-IDF, etc); *Qualitative analysis:* Design and conduction of interviews, Hermeneutical content analysis, mixed methods; *Optimization:* Linear programming, Mixed integer programming; *Quality improvement:* Root cause analysis, FMEA Analysis, other Lean Six Sigma techniques; *Educational specific techniques:* Design, deployment and management of LMS and SCORM, learning based on competences.

Computer Languages and Tools: R, SAS, SQL, Python, C++, JAVA, CPLEX, GAMS, LINDO, MATLAB, WINBUGS, LATEX, HTML, CSS, PHP, ARENA, Microsoft Office Suite, CS5 Adobe suite.

SERVICES & PROFESSIONAL AFFILIATIONS

Conference Organization

- Session Chair in International Seminar: Healthcare Analytics Applications. INFORMS 2017. October 2017, Houston, TX.
- Session Chair in International Seminar: Evaluating Health System of Public Interest. INFORMS 2016. November 2016, Nashville, TN.

- Session Chair in International Seminar: Experiences in learning with technological media for learning and communications. Organized by University de La Frontera, August 2011. Temuco, Chile.

Mentor/Interns

- Susie Yin, MIE, MBA. Intermediate Modeler. Geisinger. (2018- Present).
- Ehsan Ahmadi Ph.D. Industrial Engineering. Summer 2018
- Qianyu Hu. Ph.D. (c). The Pennsylvania State University. Summer 2018
- Khalid Almaghayreh. Industrial Engineering Doctoral Student. Binghamton University. (2017 - Present)
- Jorge Acuna Melo. Industrial Engineering Doctoral Student. University of South Florida. (2016- Present)
- Martino Gemmani. M. Sc. In Business. Visiting scholar from Politécnico di Milano, Italia. (2015)

Volunteer

- Organizer of the Annual INFORMS@USF Programming Bootcamp (2016).
- President & Financial Officer INFORMS Student Chapter at USF (2015-2016).
- Treasurer and Financial Officer INFORMS Student Chapter at USF (2014-2015).
- Instructor for Power Up! Code and Data Boot Camp: IIE and INFORMS Student Chapter at USF. Workshop in survival analysis with SAS. (April 2014).
- Great American TEACH IN Hillsborough county. Speak to small classes about engineering in Hugo Schmidt elementary school and Ben Hill Middle School (2015).

Reviewer

- IISE Transactions on Healthcare Systems Engineering
- The Journal for Healthcare Quality
- Journal of Healthcare Engineering
- America Medical Informatics Association (AMIA) 2018 Informatics Summit.
- Chilean conference for operational research OPTIMA.
- IEEE Iberoamerican Journal for Learning Technologies RITA.

Professional Member

- Institute of Operations Research and Management Sciences (INFORMS).
- Health Applications Society (HAS), INFORMS.

LIST OF REFERENCES

Please find below the references' contact information. If you have any questions, please do not hesitate to contact me at apgarciarce@geisinger.edu or +1 (570) 912 5755

Eric Reich

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Geisinger
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Ronald Dravenstott M.Sc.

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JPS Health Network
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José L. Zayas-Castro Ph.D.

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College of Engineering
University of South Florida
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Jay Wolfson DrPH, JD

Distinguished Service Professor of Public Health, Medicine and Pharmacy
Associate Vice President for USF Health
Senior Associate Dean, Morsani College of Medicine
University of South Florida, USF Health.
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Jaime M. Bustos Gómez. Ph.D.

Associate Professor
Director of the Applied Energy Lab, LIA-DIS
Systems Engineering Department
College of Engineering, Sciences and Administration
Universidad de La Frontera,
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