

## Javier Bórquez Berenguer

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Los Angeles, California javierbo@usc.edu

EDUCATION **University of Southern California**

PhD Student on Electrical Engineering  
Ming Hsieh Department of Electrical and Computer Engineering,  
Spring 2021 - Present.

**Universidad de Santiago de Chile**

Master on Engineering Sciences Mention on Electrical Engineering  
Dpto. de Ingeniería Eléctrica, August 2017 - December 2018.

**Universidad de Santiago de Chile**

Electrical Civil Engineer  
Dpto. de Ingeniería Eléctrica, March 2010 - December 2015.

TEACHING Instructor Teacher 2016 - 2021  
EXPERIENCE Dpto. de Ingeniería Eléctrica, U de Santiago, Chile.

Electric Networks I  
Electric Networks II  
Renewable Energies Generation  
Electrotechnics  
Introduction to Electrical Engineering  
Industrial Electronics Laboratory

PUBLICATIONS J. Borquez, K. Nakamura, and S. Bansal, "Parameter-Conditioned Reachable Sets for Updating Safety Assurances Online" Accepted at 2023 IEEE International Conference on Robotics and Automation (ICRA).

J. Borquez, H. Chavez, K. A. Barbosa, M. Jamett, and R. Acuna, "A Simple Distribution Energy Tariff under the Penetration of DG," *Energies*, vol. 13, no. 8, p. 1910, Apr. 2020.

D. Verdugo, J. Borquez, K. A. Barbosa and F. Rojas, "Robust Voltage Regulation of a Stand Alone Uncertain Single-Stage Boost Inverter," 2018 IEEE International Conference on Automation/XXIII Congress of the Chilean Association of Automatic Control (ICA-ACCA), Concepcion, 2018, pp. 1-5.

J. Borquez, M. Ferber and K. A. Barbosa, "Parametric uncertainty analysis of inverse linear electric circuit problems," 2017 CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies (CHILECON), Pucon, 2017, pp. 1-4.

AWARDS

U. de Santiago, Chile, Best Engineer of the Promotion, Engineering Faculty Award 2015.

U. de Santiago, Chile, Best Electrical Engineer of the Promotion, Electrical Engineering Department Award 2015.

U. de Santiago, Chile, Best Admission Score to Electrical Engineering, Electrical Engineering Department Award 2010.

Antofagasta Minerals S.A. Funding Scholarship 2015-2016.

ADDITIONAL  
ACTIVITIES

U. de Santiago, Chile, IEEE Student Branch Chair 2014-2015.

U. de Santiago, Chile, Volunteer on the University's dog shelter 2018-2020.