

Academic Staff PhD in Electrical Engineering

Coordinator of the Doctoral Program: Dr. Roberto Cárdenas Dobson

	Name	Degree/Country of attainment	e-mail	Hierarchy	Main Line of Research	Research areas of interest
1	César Azurdia Meza	PhD / Republic of Korea	cazurdia@ing.uchile.cl	Associate Professor	Information and Communication Technologies	- Wireless and mobile communication systems.
2	Martin David Adams	PhD / UK	martin@ing.uchile.cl	Full Professor	Computational Intelligence and Robotics	- Mobile robotics. - Multisensory fusion.
3	Néstor Becerra Yoma	PhD / UK	nbecerra@ing.uchile.cl	Full Professor	Information and Communication Technologies	- Human-robot interaction. - Artificial intelligence. - Signal processing.
4	Roberto Cárdenas Dobson	PhD / UK	rcardenas@ing.uchile.cl	Full Professor	Control Systems	- Power electronics and drives.
5	Sandra Céspedes Umaña	PhD. / Canada	scspedes@ing.uchile.cl	Associate Professor	Information and Communication Technologies	- Wireless and mobile networks. - Communications protocols. - Internet of things.
6	Marcos Díaz Quezada	PhD / USA	mdiazq@ing.uchile.cl	Associate Professor	Astronomical and Electronic Microwave Instrumentation	- Astronomical Instrumentation & Radars
7	Diana Dulic	PhD / Netherlands	diana.dulic@gmail.com	Associate Professor	Astronomical and Electronic Microwave Instrumentation	- Molecular electronics. - Charge transport in mesoscopic and nanoscopic devices.

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8	Pablo Estévez Valencia	PhD in Engineering / Japan	pestevez@ing.uchile.cl	Full Professor	Computational Intelligence and Robotics	<ul style="list-style-type: none"> - Deep learning. - Neural networks. - Evolutionary computing. - Information theory for learning. - Astroinformatics.
9	Ricardo Finger Camus	PhD / Chile	rfinger@u.uchile.cl	Associate Professor	Astronomical and Electronic Microwave Instrumentation	<ul style="list-style-type: none"> - Antennas. - Astronomical Instrumentation. - Heterodyne receivers. - Digital signal processing. - Meta-materials.
10	Patricio Mena Mena	PhD / Netherlands	pmena@ing.uchile.cl	Associate Professor	Astronomical and Electronic Microwave Instrumentation	<ul style="list-style-type: none"> - Semiconductor and superconductor electronics for microwave detection. - Passive and active components and systems for heterodyne detection. - Astronomical instrumentation.
11	Patricio Mendoza Araya	PhD / USA	pmendoza@ing.uchile.cl	Assistant Professor	Energy	<ul style="list-style-type: none"> - Microgrids, stability of power systems, renewable energies, power electronics.
12	Rodrigo Moreno Veyra	PhD / UK	rmorenoveyra@ing.uchile.cl	Assistant Professor	Energy	<ul style="list-style-type: none"> - Decarbonization, resilience and economics of electricity and energy systems (planning and operation).
13	Marcos Eduardo Orchard Concha	PhD / USA	morchard@ing.uchile.cl	Full Professor	Control Systems	<ul style="list-style-type: none"> - Diagnosis and prognosis of failures in nonlinear dynamic systems. - Bayesian approaches to state estimation in nonlinear and non-Gaussian dynamic systems. - Electromobility. - Predictive maintenance.
14	Rodrigo Palma Behnke	PhD in Engineering / Germany	rodrigo.palma@die.uchile.cl	Full Professor	Energy	<ul style="list-style-type: none"> - Electricity markets. - Renewable energies. - Distributed generation.

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15	Claudio Pérez Flores	PhD / USA	clperez@ing.uchile.cl	Full Professor	Computational Intelligence and Robotics	<ul style="list-style-type: none"> - Digital Image Processing. - Human Computer Interfaces. - Computer vision based on biological models. - Face detection and recognition. - Biometrics. - Applications of computational intelligence to pattern recognition.
16	Claudia Rahmann Zúñiga	PhD in Engineering / Germany	crahmann@ing.uchile.cl	Associate Professor	Energy	<ul style="list-style-type: none"> - Power systems
17	Nicolás Reyes Guzmán	PhD / Chile	nireyes@u.uchile.cl	Assistant Professor	Astronomical and Electronic Microwave Instrumentation	<ul style="list-style-type: none"> - Microwaves. - Antennas. - Radio astronomy.
18	Javier Ruiz del Solar San Martín	PhD in Engineering / Germany	jruizd@ing.uchile.cl	Full Professor	Computational Intelligence and Robotics	<ul style="list-style-type: none"> - Robotics. - Computer Vision. - Image Processing. - Pattern Recognition.
19	Doris Sáez Hueichapan	PhD in Engineering / Chile	dsaez@ing.uchile.cl	Full Professor	Control Systems	<ul style="list-style-type: none"> - Predictive Control. - Modeling and Fuzzy Control. - Control of Renewable Energy Plants.
20	Jorge Silva Sánchez	PhD / USA	josilva@ing.uchile.cl	Associate Professor	Control Systems	<ul style="list-style-type: none"> - Signal Processing. - Information Theory.
21	Luis Vargas Díaz	PhD / Canada	lvargasd@ing.uchile.cl	Full Professor	Energy	<ul style="list-style-type: none"> - Energy systems

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22	Felipe Tobar Henríquez	PhD /London UK	ftobar@dim.uchile.cl	Associate Professor	Astronomical Instrumentation and Systems Control	<ul style="list-style-type: none"> - Interface between statistical machine learning and signal processing, including approximate inference, Bayesian nonparametrics, spectral estimation, and computationally optimal transport. - Natural language processing and the philosophy of artificial intelligence.
23	Tomás Cassanelli	PhD /Toronto Canada	tcassanelli@ing.uchile.cl	Assistant Professor	Astronomical and Electronic Microwave Instrumentation	<ul style="list-style-type: none"> - Signal processing in local and long-distance Very Long Baseline Interferometry (VLBI). - Long radio wave instrumentation, construction of radio telescopes from frontend (radio receiver, mechanical structure) to backend (analog-to-digital converter). - Optical instrumentation, in particular use and applications of fast photon counters.
24	Shaharyar Kamal	PhD / Republic of Korea	sherrykhan84@gmail.com	Assistant Professor	Information and Communication Technologies	<ul style="list-style-type: none"> - Impulse response optimization for 5G New Radio waveforms. - Machine learning for 5G New Radio waveforms, - Human behavior and activity recognition using mmWaveRadar. - Filter design and analysis in advanced wireless communication systems. - Applied optimization for B5G and 6G communication systems. - Digital twin technologies



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Postgraduate Coordination
Electrical Engineering

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29	Alex Navas Fonseca	Ph.D. / England	anavas@ing.uchile.cl	Assistant Professor	Control Systems	-Distributed predictive control -Microgrid control and modeling
30	Heraldo Rozas Ovando	Ph.D. / Atlanta USA	heraldo.rozas@ug.uchile.cl	Assistant Professor	Control Systems	- Optimization for predictive maintenance - Models for asset condition monitoring (detection, diagnosis and prognosis) - Machine learning - Electromobility