

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 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. |
| 11 | Rodrigo Moreno Vieyra | PhD / UK | rmorenovieyra@ing.uchile.cl | Assistant Professor | Energy | <ul style="list-style-type: none"> - Decarbonization, resilience and economics of electricity and energy systems (planning and operation). |
| 12 | 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. |
| 13 | 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. |
| 14 | 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. |
| 15 | Claudia Rahmann Zúñiga | PhD in Engineering / Germany | crahmann@ing.uchile.cl | Associate Professor | Energy | <ul style="list-style-type: none"> - Power systems |



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| 16 | 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. |
| 17 | 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. |
| 18 | Jorge Silva Sánchez | PhD / USA | josilva@ing.uchile.cl | Associate Professor | Control Systems | <ul style="list-style-type: none"> - Signal Processing. - Information Theory. |
| 19 | 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. |
| 20 | 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. |
| 21 | Alex Navas Fonseca | Ph.D. / England | anavas@ing.uchile.cl | Assistant Professor | Control Systems | <ul style="list-style-type: none"> -Distributed predictive control. -Microgrid control and modeling. |
| 22 | Heraldo Rozas Ovando | Ph.D. / Atlanta USA | heraldo.rozas@ug.uchile.cl | Assistant Professor | Control Systems | <ul style="list-style-type: none"> - Optimization for predictive maintenance. - Models for asset condition monitoring (detection, diagnosis and prognosis) - Machine learning. - Electromobility. |