

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 | Roberto Cárdenas Dobson | PhD / UK | rcardenas@ing.uchile.cl | Full Professor | Control Systems | - Power electronics and drives. |
| 2 | Marcos Eduardo Orchard Concha | PhD / USA | morchard@ing.uchile.cl | Full Professor | Control Systems | - Diagnosis and prognosis of failures in nonlinear dynamic systems. - Bayesian approaches to state estimation in nonlinear and non-Gaussian dynamic systems. - Electromobility. - Predictive maintenance. |
| 3 | Doris Sáez Hueichapan | PhD in Engineering / Chile | dsaez@ing.uchile.cl | Full Professor | Control Systems | - Predictive Control. - Modeling and Fuzzy Control. - Control of Renewable Energy Plants. |
| 4 | Jorge Silva Sánchez | PhD / USA | josilva@ing.uchile.cl | Associate Professor | Control Systems | - Signal Processing. - Information Theory. |
| 5 | 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. |
| 6 | Constanza Ahumada Sanhueza | PhD. / England | coahumad@ing.uchile.cl | Assistant Professor | Control Systems | - Electromechanical interactions - Control of isolated micro-grids (aircraft/ships) |



fcfm

Ingeniería Eléctrica
FACULTAD DE CIENCIAS
FÍSICAS Y MATEMÁTICAS
UNIVERSIDAD DE CHILE

die

Postgraduate Coordination
Electrical Engineering

| | | | | | | |
|----|------------------------|--------------------------------------|--|---------------------|---|---|
| 7 | 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. |
| 8 | 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. |
| 9 | 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). |
| 10 | 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. |
| 11 | Claudia Rahmann Zúñiga | PhD in Engineering / Germany | crahmann@ing.uchile.cl | Full Professor | Energy | <ul style="list-style-type: none">- Power systems |
| 12 | Angela Flores Quiroz | PhD in Engineering / Berlin, Germany | angflore@ing.uchile.cl | Assistant Professor | Energy | <ul style="list-style-type: none">- Planning and operation of electricity systems under uncertainty.- Energy transition and decarbonization.- Electricity demand management and coupling with other sectors.- Decomposition algorithms to solve large-scale optimization problems. |
| 13 | Marcos Díaz Quezada | PhD / USA | mdiazq@ing.uchile.cl | Associate Professor | Astronomical and Electronic Microwave Instrumentation | <ul style="list-style-type: none">- Astronomical Instrumentation & Radars |
| 14 | Diana Dulic | PhD / Netherlands | diana.dulic@gmail.com | Associate Professor | Astronomical and Electronic Microwave Instrumentation | <ul style="list-style-type: none">- Molecular electronics.- Charge transport in mesoscopic and nanoscopic devices. |
| 15 | 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. |

| | | | | | | |
|----|-------------------------------------|---------------------------------|--|------------------------|--|--|
| 16 | 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. |
| 17 | Martin David Adams | PhD / UK | martin@ing.uchile.cl | Full Professor | Computational Intelligence and Robotics | <ul style="list-style-type: none"> - Mobile robotics. - Multisensory fusion. |
| 18 | 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. |
| 19 | 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. |
| 20 | 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. |
| 21 | Néstor Becerra Yoma | PhD / UK | nbecerra@ing.uchile.cl | Full Professor | Information and Communication Technologies | <ul style="list-style-type: none"> - Human-robot interaction. - Artificial intelligence. - Signal processing. |
| 22 | César Azurdia Meza | PhD / Republic of Korea | cazurdia@ing.uchile.cl | Associate Professor | Information and Communication Technologies | <ul style="list-style-type: none"> - Wireless and mobile communication systems. |

| | | | | | | |
|----|-----------------------|-------------------------|--|---------------------|--|---|
| 23 | Sandra Céspedes Umaña | PhD. / Canada | scspedes@ing.uchile.cl | Associate Professor | Information and Communication Technologies | <ul style="list-style-type: none"> - Wireless and mobile networks. - Communications protocols. - Internet of things. |
| 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. |