

## Academic Staff Master's Degree in Engineering Sciences, Electrical Mention

Coordinator of the Master Program: Dr. César Azurdia Meza

	Name	Degree/Country of attainment	e-mail	Hierarchy	Main Line of Research	Research areas of interest
1	César Azurdia Meza	PhD / Republic of Korea	<a href="mailto:cazurdia@ing.uchile.cl">cazurdia@ing.uchile.cl</a>	Associate Professor	Information and Communication Technologies	- - Wireless and mobile communication systems.
2	Martin David Adams	PhD / UK	<a href="mailto:martin@ing.uchile.cl">martin@ing.uchile.cl</a>	Full Professor	Computational Intelligence and Robotics	- Mobile robotics. - Multisensory fusion.
3	Néstor Becerra Yoma	PhD / UK	<a href="mailto:nbecerra@ing.uchile.cl">nbecerra@ing.uchile.cl</a>	Full Professor	Information and Communication Technologies	- Human-robot interaction. - Artificial intelligence. - Signal processing.
4	Roberto Cárdenas Dobson	PhD / UK	<a href="mailto:rcardenas@ing.uchile.cl">rcardenas@ing.uchile.cl</a>	Full Professor	Control Systems	- Power electronics and drives.
5	Sandra Céspedes Umaña	PhD. / Canada	<a href="mailto:scspedes@ing.uchile.cl">scspedes@ing.uchile.cl</a>	Associate Professor	Information and Communication Technologies	- Wireless and mobile networks. - Communications protocols. - Internet of things.
6	Marcos Díaz Quezada	PhD / USA	<a href="mailto:mdiazq@ing.uchile.cl">mdiazq@ing.uchile.cl</a>	Associate Professor	Astronomical and Electronic Microwave Instrumentation	- Astronomical Instrumentation & Radars
7	Diana Dulic	PhD / Netherlands	<a href="mailto:diana.dulic@gmail.com">diana.dulic@gmail.com</a>	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	<a href="mailto:pestevez@ing.uchile.cl">pestevez@ing.uchile.cl</a>	Full Professor	Computational Intelligence and Robotics	<ul style="list-style-type: none"> <li>- Deep learning.</li> <li>- Neural networks.</li> <li>- Evolutionary computing.</li> <li>- Information theory for learning.</li> <li>- Astroinformatics.</li> </ul>
9	Ricardo Finger Camus	PhD / Chile	<a href="mailto:rfinger@u.uchile.cl">rfinger@u.uchile.cl</a>	Associate Professor	Astronomical and Electronic Microwave Instrumentation	<ul style="list-style-type: none"> <li>- Antennas.</li> <li>- Astronomical Instrumentation.</li> <li>- Heterodyne receivers.</li> <li>- Digital signal processing.</li> <li>- Meta-materials.</li> </ul>
10	Patricio Mena Mena	PhD / Netherlands	<a href="mailto:pmena@ing.uchile.cl">pmena@ing.uchile.cl</a>	Associate Professor	Astronomical and Electronic Microwave Instrumentation	<ul style="list-style-type: none"> <li>- Semiconductor and superconductor electronics for microwave detection.</li> <li>- Passive and active components and systems for heterodyne detection.</li> <li>- Astronomical instrumentation.</li> </ul>
11	Patricio Mendoza Araya	PhD / USA	<a href="mailto:pmendoza@ing.uchile.cl">pmendoza@ing.uchile.cl</a>	Assistant Professor	Energy	<ul style="list-style-type: none"> <li>- Microgrids, stability of power systems, renewable energies, power electronics.</li> </ul>
12	Rodrigo Moreno Vieyra	PhD / UK	<a href="mailto:rmorenovieyra@ing.uchile.cl">rmorenovieyra@ing.uchile.cl</a>	Assistant Professor	Energy	<ul style="list-style-type: none"> <li>- Decarbonization, resilience and economics of electricity and energy systems (planning and operation).</li> </ul>
13	Marcos Eduardo Orchard Concha	PhD / USA	<a href="mailto:morchard@ing.uchile.cl">morchard@ing.uchile.cl</a>	Full Professor	Control Systems	<ul style="list-style-type: none"> <li>- Diagnosis and prognosis of failures in nonlinear dynamic systems.</li> <li>- Bayesian approaches to state estimation in nonlinear and non-Gaussian dynamic systems.</li> <li>- Electromobility.</li> <li>- Predictive maintenance.</li> </ul>
14	Rodrigo Palma Behnke	PhD in Engineering / Germany	<a href="mailto:rodrigo.palma@die.uchile.cl">rodrigo.palma@die.uchile.cl</a>	Full Professor	Energy	<ul style="list-style-type: none"> <li>- Electricity markets.</li> <li>- Renewable energies.</li> <li>- Distributed generation.</li> </ul>

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

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22	Constanza Ahumada Sanhueza	PhD. / England	<a href="mailto:coahumad@ing.uchile.cl">coahumad@ing.uchile.cl</a>	Assistant Professor	Control Systems	<ul style="list-style-type: none"> <li>- Electromechanical interactions</li> <li>- Control of isolated micro-grids (aircraft/ships)</li> </ul>
23	René Méndez Bussard	PhD, USA 1995	<a href="mailto:rmendez@uchile.cl">rmendez@uchile.cl</a>	Associate Professor	Information Theory, Astronomical Instrumentation, Astrometry, Photometry, Photometry	<ul style="list-style-type: none"> <li>- Multiple stellar systems, astronomical instrumentation, astronomical instrumentation, applications of Information. Theory applications to astronomical data analysis</li> </ul>
24	Alejandro Navarro Espinoza	PhD / England	<a href="mailto:anavarro@centroenergia.cl">anavarro@centroenergia.cl</a>	Adjunct Professor	Distribution Systems and Smart Grids	<ul style="list-style-type: none"> <li>- Impacts of incorporating low-carbon technologies in distribution systems.</li> <li>- Maximizing new technologies in distribution systems through smart grids.</li> <li>- Contributions from distributed resources to the flexibility, reliability and resilience of electric power systems.</li> </ul>
25	Felipe Tobar Henríquez	PhD / London UK	<a href="mailto:ftobar@dim.uchile.cl">ftobar@dim.uchile.cl</a>	Associate Professor	Astronomical Instrumentation and Systems Control	<ul style="list-style-type: none"> <li>- Interface between statistical machine learning and signal processing, including approximate inference, Bayesian nonparametrics, spectral estimation, and computationally optimal transport.</li> <li>- Natural language processing and the philosophy of artificial intelligence.</li> </ul>
26	Tomás Cassanelli	PhD /Toronto Canada	<a href="mailto:tcassanelli@ing.uchile.cl">tcassanelli@ing.uchile.cl</a>	Assistant Professor	Astronomical and Electronic Microwave Instrumentation	<ul style="list-style-type: none"> <li>- Signal processing in local and long-distance Very Long Baseline Interferometry (VLBI)</li> <li>- Long radio wave instrumentation, construction of radio telescopes from frontend (radio receiver, mechanical structure) to backend (analog-to-digital converter)</li> <li>- Optical instrumentation, in particular use and applications of fast photon counters.</li> </ul>
27	Angela Flores Quiroz	PhD in Engineering / Berlin, Germany	<a href="mailto:angflore@ing.uchile.cl">angflore@ing.uchile.cl</a>	Assistant Professor	Energy	<ul style="list-style-type: none"> <li>- Planning and operation of electricity systems under uncertainty.</li> <li>- Energy transition and decarbonization.</li> <li>- Electricity demand management and coupling with other sectors.</li> <li>- Decomposition algorithms to solve large-scale optimization problems.</li> </ul>

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28	Shaharyar Kamal	PhD / Republic of Korea	<a href="mailto:sherrykhan84@gmail.com">sherrykhan84@gmail.com</a>	Assistant Professor	Information and Communication Technologies	<ul style="list-style-type: none"> <li>- Impulse response optimization for 5G New Radio waveforms,</li> <li>- Machine learning for 5G New Radio waveforms,</li> <li>- Human behavior and activity recognition using mmWaveRadar</li> <li>- Filter design and analysis in advanced wireless communication systems</li> <li>- Applied optimization for B5G and 6G communication systems</li> <li>- Digital twin technologies</li> </ul>
29	Alex Navas Fonseca	Ph.D. / England	<a href="mailto:anavas@ing.uchile.cl">anavas@ing.uchile.cl</a>	Assistant Professor	Control Systems	<ul style="list-style-type: none"> <li>-Distributed predictive control</li> <li>-Microgrid control and modeling</li> </ul>
30	Heraldo Rozas Ovando	Ph.D. / Atlanta USA	<a href="mailto:heraldo.rozas@ug.uchile.cl">heraldo.rozas@ug.uchile.cl</a>	Assistant Professor	Control Systems	<ul style="list-style-type: none"> <li>- Optimization for predictive maintenance</li> <li>- Models for asset condition monitoring (detection, diagnosis and prognosis)</li> <li>- Machine learning</li> <li>- Electromobility</li> </ul>