

## Academic Staff PhD in Electrical Engineering

Coordinator of the Doctoral 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	Systems Control	- 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 Veyra	PhD / UK	<a href="mailto:rmorenoveyra@ing.uchile.cl">rmorenoveyra@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	Systems Control	<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	Systems Control	<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	Systems Control	<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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Ingeniería Eléctrica  
FACULTAD DE CIENCIAS  
FÍSICAS Y MATEMÁTICAS  
UNIVERSIDAD DE CHILE

**die** Postgraduate  
Coordination -  
Electrical  
Engineering

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22	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>
23	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>
24	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>