

## International Success Stories - Sajjad Maleki

<b>Project Title</b>	(WALL-EE) Wide-area Adaptive control in InteLLigent cyber-physical power systems exploiting dDEP reinforcement learning
<b>What were your main reasons for applying for the Co-Tutelle programme?</b>	The Co-Tutelle program offers a unique chance to tap into the resources of two separate universities and engage with two diverse research teams, thereby expanding your intellectual horizons. Additionally, for early career researchers, it serves as a valuable tool for enhancing international engagement, essential for fostering international academic connections.
<b>Brief description of project (200 words)</b>	Our project is primarily dedicated to assessing the impact of specific clusters of cyber threats on electrical power systems and devising mitigation strategies to counter them. However, an additional aspect of the ongoing project involves the detection of such attacks. Furthermore, the research also encompasses the crucial task of evaluating the risk and probability associated with the threats confronting the system.
<b>What challenges/questions is your research trying to answer?</b>	How to detect and mitigate cyber-attacks in power systems and what are the risks facing the systems?
<b>What have been your key findings and subsequent impact to date? (250 words)</b>	We have already proposed quantified analyses on the impact of cyberattacks on power networks and how to detect them. Afterwards, we proposed a mitigation method in order to keep the network stable in spite of the presence of the attack.
<b>How have you found the co-tutelle programme so far?</b>	Having two supervisors from two different universities and slightly different expertise is definitely helpful in coming up with more innovative research contributions. Also, belonging to two research groups makes you feel a bit more confident than the other PhDs because you realise you have the essence of both research teams in yourself.
<b>What have you found most rewarding about the co-tutelle programme?</b>	Learning how to be more inclusive and cope with a variety of people. Also, meeting many like-minded scholars.
<b>Intended next steps</b>	For now, I am focused on finalising my PhD but on the horizon, I can see building my academic career based on my earned expertise during my PhD.