

# Pudong Ge

Room 1107, Electrical and Electronic Engineering Building, Imperial College London, UK  
Mobile: +44 (0)75 7993 5825/+86 13813013452, Email: [pudong.ge19@imperial.ac.uk](mailto:pudong.ge19@imperial.ac.uk)

## EDUCATION

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| <b>Imperial College London</b><br><i>PhD student in Electrical Engineering</i>                                  | London, UK<br><i>Sep. 2019 – Present</i>       |
| <b>Southeast University</b><br><i>MSc in Electrical Engineering</i>   | Nanjing, China<br><i>Sep. 2016 – June 2019</i> |
| <b>Nanjing University of Science &amp; Technology</b><br><i>BEng in Electrical Engineering &amp; Automation</i> | Nanjing, China<br><i>Sep. 2012 – June 2016</i> |

## RESEARCH INTEREST

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I am broadly interested in distributed control and optimisation in cyber-physical systems with applications to power systems, especially in resilient operation of power systems with renewables, cyberattack detection and mitigation in power system control, and etc.

## EXPERIENCE

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| <b>Imperial College London</b><br><i>Research Assistant</i>   | London, UK<br><i>Nov. 2020 – Present</i>        |
| <ul style="list-style-type: none"><li>• <b>Project:</b> Energy for Development - Low Carbon Energy and Industry for Economic Growth in Mongolia, GCRF</li><li>• <b>Subtopic:</b> Energy infrastructure in Mongolia: local, national and international perspective</li></ul>   |   |
| <i>Teaching Assistant</i>   | <i>Sep. 2020 – Jan. 2021</i>                    |
| <ul style="list-style-type: none"><li>• <b>Module:</b> Electrical Energy Systems; Debating and Non-technical / Soft Skills Development (Energy Future Lab)</li><li>• <b>Responsibility:</b> General administration; Panopto (Lecture recording); Marking; Tutorial support</li></ul>  |   |
| <b>Southeast University</b><br><i>Graduate Student Researcher/Research Assistant</i>  | Nanjing, China<br><i>Sep. 2016 – June 2019</i>  |
| <ul style="list-style-type: none"><li>• <b>Control of Active Distribution Network with Dynamic Control System:</b> Developed an extended state observer-based distributed robust secondary voltage and frequency control for an autonomous microgrid (MG) with inverter-based distributed generators (DGs) considering the uncertainties from models and measurement noise</li><li>• <b>Technologies and Demonstration of Applications of Distributed Renewable Energy Generation Clusters:</b> Developed a virtual cluster mechanism, clarified its concept and virtual cluster division method for distributed PV(photovoltaic) based on community theory</li></ul> |   |
| <b>Nanjing University of Science and Technology</b><br><i>Undergraduate Teaching Assistant</i>  | Nanjing, China<br><i>March 2014 – Dec. 2014</i> |
| <ul style="list-style-type: none"><li>• <b>Module:</b> Electric Machinery; Power System Analysis</li><li>• <b>Responsibility:</b> Peer mentoring; Online after-class tutoring lecture</li></ul>   |   |

## SELECTED PUBLICATIONS

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1. **P. Ge**, B. Chen, and F. Teng, “Event-triggered Distributed MPC for resilient voltage control of an islanded microgrid”, *International Journal of Robust and Nonlinear Control*, Early Access, doi: 10.1002/rnc.5238.
2. **P. Ge**, Y. Zhu, T. Green, and F. Teng, “Resilient Secondary Voltage Control of Islanded Microgrids: An ESKBF-Based Distributed Fast Terminal Sliding Mode Control Approach”, *IEEE Transactions on Power Systems*, Early Access, doi: 10.1109/TPWRS.2020.3012026.
3. **P. Ge**, X. Dou, X. Quan, Q. Hu, W. Sheng, Z. Wu and W. Gu, “Extended-State-Observer-Based Distributed Robust Secondary Voltage and Frequency Control for an Autonomous Microgrid”, *IEEE Transactions on Sustainable Energy*, vol. 11, no. 1, pp. 195-205, Jan. 2020.
4. **P. Ge**, Q. Hu, Q. Wu, X. Dou, Z. Wu, and Y. Ding, “Increasing operational flexibility of integrated energy systems by introducing power to hydrogen”, *IET Renewable Power Generation*, vol. 14, no. 3, pp. 372-380, Nov. 2019.

## ACADEMIC ACTIVITIES

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**Professional Affiliations:** Member, IEEE & IEEE Power and Energy Society (PES)

**Reviewer of International Journals:** IEEE Transactions on Sustainable Energy; IEEE Transactions on Industry Applications; International Journal of Electrical Power and Energy Systems; CSEE Journal of Power and Energy Systems; Control Engineering Practice