



Curriculum Vitae

Name: Xiaohe Yan

PhD in Electronic & Electrical Engineering

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Date of Birth: 11/August/1991

Working Experience:

UM Postdoctoral Associateship, University of Macau

Nov.2019-present

Education:

PhD, University of Bath

July. 2015 – Sep.2019

MSc, University of Bath (Rewarded Distinction & Ranked **1st**)

Sep. 2014- Sep. 2016

B.E., Xi'an University of Technology

Sep. 2009-Sep. 2013

List of Journal publications:

1. **X. Yan**, C. Gu, F. Li and Z. Wang, "LMP-based Pricing for Energy Storage in Local Market to Facilitate PV Penetration," **IEEE Transactions on Power Systems**, 2018, **Published, SCI, IF=6.8**.
2. **X. Yan**, C. Gu, Z. Wang, and F. Li "Capacity Share Optimisation for Multi-Service Energy Storage Management under Portfolio Theory", **IEEE Transactions on Industrial Electronics**, 2018, **Published, SCI, IF=7.5**.
3. **X. Yan**, C Gu, F Li, Y Xiang, "Network pricing for customer-operated energy storage in distribution networks", **Applied Energy**, 2017, **Published, SCI, IF=8.4**
4. C.Gu, **X Yan (Corresponding Author)**, Z Yan, F Li, "Dynamic pricing for responsive demand to increase distribution network efficiency", **Applied Energy**, 2017, **Published, SCI, IF=8.4**
5. **X. Yan**, C Gu, and F Li, "Robust Optimisation based Energy Storage Operation for System Congestion Management", **IEEE System Journal**, **Published, SCI, IF=4.5**.
6. **X. Yan**, X. Zhang, C. Gu, and F. Li, "Power to gas: addressing renewable curtailment by converting to hydrogen", **Frontiers in Energy**, pp 1–9, 2018, **Published, SCI, IF=1.7**.
7. **X. Yan**, C Gu, and F Li, "Network Pricing under Uncertainty with Curtailment Management Truncated Strategies" **IEEE System Journal**, **Frist round review**.
8. **X. Yan**, C Gu, X.Yang and F Li, "Novel Pricing for Energy Storage Operation to Facilitate Renewable Energy Penetration" in **IEEE Transactions on Industrial Informatics**, **Submitted**.
9. **X. Yan**, C Gu and F Li, "Real Options based Network Investment and Pricing to Reflect Uncertainty and Flexibility", **IEEE Transactions on Power System**, **Submitted**.
10. **X. Yan**, C Gu and F Li, "Electricity Procurement Considering Balance of Energy and Network Investment Costs", **IEEE Transactions on Power System**, **Submitted**.

List of conference publications:

11. **X. Yan**, C Gu, F Li, Q Ai, "Cost-benefit Comparison of Different Techniques for Addressing Wind Curtailment", **Energy Procedia (ICAE 2017)**, vol. 142, 2017.
12. **X. Yan**, X. Yang, H. Wang, C. Gu and F. Li, "Pricing for integrated electricity and gas systems based on long-run incremental cost," 2017 IEEE Power & Energy Society General Meeting (**PES GM**), Chicago, IL, 2017, pp. 1-5.



13. **X. Yan**, Q. Ma, H. Wyman-Pain, C. Gu, R. Li and F. Li, "Mitigating load forecast errors for suppliers by utilizing energy storage at a substation level," 2017 IEEE PES Innovative Smart Grid Technologies Conference Europe (**ISGT-Europe**), Torino, 2017.
14. **X. Yan**, C. Gu and F. Li, "Value quantification of electric vehicle response on network investment in the UK," 2016 IEEE PES Innovative Smart Grid Technologies Conference Europe (**ISGT-Europe**), Ljubljana, 2016, pp. 1-5.

Professional Activities and Affiliations

- **Reviewer** of IEEE transaction on Industrial Informatics (Top 1), IEEE transaction on Sustainable Energy, IEEE Power Engineering Letters; IEEE Access.
- **Member** of Power System Economics Subcommittee (IEEE Power Engineering Society)
- **Member** of IEEE Power System Operation, Planning and Economics (PSOPE) Committee
- **Member** of Balancing Services Charges Task Force (Charging Future)
- **Member** of Institution of Electronic & Electrical Engineers (IEEE)

Honors

- **“Graduate School Scholarship” Funded PHD by University of Bath; Chinese Government Scholarship (CSC).** **2014-2019**

Patent:

- **“An Underwater Aeration Device for handling the River Pollutants”**
Publication Number: 102910748; **Second Author.**

Attended workshops:

- 2017 IEEE Power & Energy Society General Meeting (**PES GM**), Chicago;
- 2016 IEEE PES Innovative Smart Grid Technologies Conference Europe (**ISGT-Europe**), Ljubljana;
- 2017 IEEE PES Innovative Smart Grid Technologies Conference Europe (**ISGT-Europe**), Torino;
- The 9th International conference on Applied Energy (ICAE 2017), 2017, Cardiff, UK;
- Charging Futures portal, Electricity T&D Network Charging, National Grid, UK, 2018;
- HubNet, Future of Energy Networks, University of Bath, 2017;
- International Energy Agency Hydrogen Implementing Agreement (IEA HIA) Task 38, 2017;
- Cambridge, 2016 Energy Policy Research Group (EPRG) Spring Seminar, 2016;
- Wales & West Utilities (WWU) Annual Stakeholder Workshops, 19th April 2016, Bristol;
- UK-China "Economics, Planning and Business Models for Smart Electric Mobility", 2016.

Employment History:

- Employer: University of Bath
Title: Casual conference assistant (2014~2015), General assistance of the department (2014~2015), Casual Student Ambassador (2014~2019).
Teaching assistant (Lab demonstrator and tutorial assistant) (2014-2019)

Social Activities:

- Founder of Bath University Fitting Club
- Member of Bath Mountaineering Club