

Junjie Yin

☎ (+86)157-1131-7878 | ✉ yinjunjie@seu.edu.cn | 🏠 junjie-yin.github.io
📍 No.2 Sipailou, Nanjing, Jiangsu Province, China

Education

🏫 Southeast University (SEU)

Master of Science in Electrical Engineering (In Reading), GPA: 3.79/4.0

Nanjing

Sep. 2020 - Jun. 2023

- Thesis entitled “Research on Transient Stability of Grid-connected Converter”
- Research interests: Stability of power system; Grid-connected converters; Integrated energy system; Lyapunov optimization

🏫 North China Electrical Power University (NCEPU)

Bachelor of Science in Smart Grid Information Engineering, GPA: 3.73/4.0 (Ranked 1st/80)

Beijing

Sep. 2016 - Jun. 2020

- Thesis entitled “Research on Multi-energy Flow Interactive Coupling Characteristics and Optimal Scheduling of Integrated Energy System”

Technical Skills

Programming

Matlab, C, Python

Professional Softwares

Simulink, PLECS, Mathcad, PSCAD, RT-Box, Multisim, CVX, IBM Cplex, Yalmip

Drawing & Typesetting

Photoshop, Illustrator, SketchUp, Office, L^AT_EX, Beamer

Languages

English (TOEFL 100: R30, L28, S24, W24), Mandarin (Native)

Representative Publications

Journals:

- [1] J. Yin, J. Wang*, J. You, et al. “Integrated Energy System Optimal Operation in Coal District with Hydrogen Heavy Trucks,” *Frontiers in Energy Research*, 9:748673, 2021. (SCI index, IF: 4.008) [Link](#)
- [2] J. Yin, Y. Chen*, G. Sang, et al. “QoE-Oriented Rate Control and Resource Allocation for Cognitive M2M Communication in Spectrum-Sharing OFDM Networks,” *IEEE Access*, 7:43318-43330, 2019. (SCI index, IF: 3.367) [Link](#)

Patents:

- [1] J. Wang, J. Yin, X. Li. “A Modeling Method of Converter Sequence Impedance in Rectifier-Inverter Mode.” China Patent No. 2021112230502. 20 Oct. 2021.
- [2] J. Wang, J. Yin, X. Li. “An Improved Control Method for Power Decoupling Based on Adaptive Virtual Impedance.” China Patent No. 2021112230517. 20 Oct. 2021.
- [3] J. Wang, J. Yin, H. Yan. “Method for Weight Formulating of the Evaluation Index of Distribution Network Reliability.” China Patent No. 2022100109403. 06 Jan. 2022.
- [4] J. Yin, J. Wang, N. Wang, et al. “A User-Oriented Calculation Method of Distribution Network Reliability Evaluation Index.” China Patent No. 2022108630263. 23 Jul. 2022.

Research Projects

Research on Active and Rapid Support Technology of Transient Frequency and Voltage for Photovoltaic/Wind Farm Stations

Beijing

Topic Investigator

Dec. 2021 - Nov. 2025

- National Key Research and Development Program of China (No. 2021YFB2400500)
- Studied the difference between Grid-Forming Converters and Grid-Following Converters
- Compared the calculation error (weighted Euclidean distance) of eigenvalues of each system after partitioning (discretization of difference step size) to figure out the optimal network partitioning method on the basis of the difference of the eigenvalues of the system components, so as to achieve the network partition of active distribution network

Research on Distribution Network Planning and Power Supply Restoration Technology Facing the Reliability Needs of End Users

Tianjin

Topic Investigator

Jan. 2020 - Dec. 2021

- State Grid Corporation Headquarters Technology Project (No. 5400-202012118A-0-0-00)

Research on Friendly Grid-Supporting and Online Evaluation Technology of New Energy for Bilateral Service between Factory and Grid

Yangzhou

Project Investigator

Jun. 2021 - Dec. 2022

- Jiangsu Power Grid Corporation Scientific Research Project (No. J2021012)

Research on Interaction and Coupling Characteristics of Multi-energy Flow in Integrated Energy System

Changzhou

Project Investigator

Sep. 2019 - Dec. 2020

- Jiangsu Power Grid Corporation Scientific Research Project (No. J2019082)

Awards and Honors

Oct. 2020-2021	Scholarship: "Graduate Scholarship of SEU" (2 Times), "Graduate Scholarship of NR Electric Co., Ltd"	Nanjing
Nov. 2020	Contest: Second Prize of China in "National Post-Graduate Mathematical Contest in Modeling"	Shanghai
Jun. 2020	Honorary Title: "Outstanding Graduates of Beijing"	Beijing
Nov. 2019	Contest: First Prize of Beijing in "Contemporary Undergraduate Mathematical Contest in Modeling"	Beijing
Oct. 2017-2019	Scholarship: "First-class Undergraduate Scholarship" (2 Times), "Second-class Undergraduate Scholarship", "Scholarship of CPCEP Co., Ltd", "Scholarship of Beijing Banner Electric Co., Ltd"	Beijing
Sep. 2017-2019	Honorary Title: "Outstanding Student Leaders" (2 Times), "Distinction Student"	Beijing

Volunteer Services

IEEE ACCESS, IEEE Transactions on Industry Applications

ScholarOne Website

Peer Reviewer

Oct. 2020 - Present

- Reviewed 14 manuscripts submitted to IEEE ACCESS
- Reviewed 2 manuscripts submitted to IEEE Transactions on Industry Applications

International Academic Conferences

Several Cities

Presentation / Attendance

Oct. 2019 - Present

- IEEE 5th International Electrical and Energy Conference (CIEEC 2022), Nanjing, May. 2022
- The 5th IEEE Conference on Energy Internet and Energy System Integration (EI² 2021), Taiyuan, Oct. 2021
- International Conference on Smart Grid and Energy Engineering (SGEE 2020), Guilin, Nov. 2020
- 2019 Annual Meeting of Chinese Society for Electrical Engineering (CSEE Annual 2019), Beijing, Nov. 2019

Huizhou Electric Power Co., Ltd, China Southern Power Grid

Huizhou

Intern

Jul. 2019 - Aug. 2019

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School of Electrical and Electronic Engineering, North China Electric Power University

Beijing

Student Leader of the Grade 2016

Feb. 2016 - Jun. 2020

- Bridged the gap between teacher and students, and had strong communication skills and work initiative.

Student Committee of North China Electric Power University

Beijing

Member of Committee (Serving 3 Terms)

Sep. 2017 - Aug. 2019

- Adhered to the principle of serving students, correctly exercised the power of student committee members, and strived to help students solve problems.

References

- Prof. Jianhua Wang
Ph. D, Associate Professor, at School of Electrical Engineering, Southeast University, Nanjing 210096, Jiangsu, China
☎ (+86)138-1301-3677 ✉ wangjianhua@seu.edu.cn
- Prof. Zhenyu Zhou
Ph. D, Professor, at School of Electrical and Electronic Engineering, North China Electric Power University, Beijing 102206, Beijing, China
☎ (+86)182-0150-4698 ✉ zhenyu_zhou@ncepu.edu.cn
- Mr. Shuangyang Li
Student activities advisor, at School of Electrical and Electronic Engineering, North China Electric Power University, Beijing 102206, Beijing, China
☎ (+86)158-1014-6050 ✉ 464821993@qq.com

(References available upon request)