

Shuhui Wang

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🌐 Chinese

🎓 Paris Sciences et Lettres (PSL)

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Education

Nov 2022 – ongoing	PhD of Computational Biology, Université Paris Dauphine & ESPCI-PSL, France <i>Thesis Title: Leveraging Deep Learning Methods for the Prediction of Different Biological Interactions.</i>
Sep 2019 – Jul 2022	Master of Science in Applied Mathematics, Beijing Jiaotong University, China <i>Thesis Title: A Class of Improved Whale Optimization Algorithms and Their Applications on Parameter Estimation Problems of Nonlinear Systems.</i>
Sep 2017 – Jul 2019	Bachelor of Engineering (double degree), Centralesupelec, France
Sep 2015 – Jul 2017	Bachelor of Science in Statistics, Beijing Jiaotong University, China

Publications and Conferences

2025	1. Wang, S. , Allauzen, A., Nghe, P. & Opuu, V. A guide for active learning in synergistic drug discovery. <i>Scientific Reports</i> 15 , 3484 (2025).
	2. Wang, S. , Allauzen, A., Nghe, P. & Opuu, V. Cell Fate Prediction Using Dose-Response Autoencoder Model. (<i>under preparation, plan to submit to Nature communication</i>) (2025).
	3. Wang, S. , Allauzen, A., Nghe, P. & Opuu, V. Hypothesis-driven interpretable neural network for interactions between genes. <i>bioRxiv</i> (<i>under review in PLOS computational biology</i>) (2025).
2024	4. Zhang, C., Hu, L., Wang, S. & et al. Heat Tolerance-Associated circRNA3685 Regulates Apoptosis and Autophagy in Bovine Mammary Epithelial Cells via Sponging bta-miR-138. <i>Journal of Agricultural and Food Chemistry</i> 73 , 1656–1671 (2024).
2023	5. Zhang, C., Wang, S. , Hu, L. & et al. Analysis of CircRNA Expression in Peripheral Blood of Holstein Cows in Response to Heat Stress. <i>International Journal of Molecular Sciences</i> 24 , 10150 (2023).
2022	6. Tan, G., Wang, S. , Vierge, V. & et al. An EEG Classifier to Discriminate Between Focused Attention Meditation and Problem-solving in 2022 IEEE International Conference on Systems, Man, and Cybernetics (SMC) (2022), 1954–1960.
	7. Wang, S. , Hu, W., Riego, I. & Yu, Y. Improved surrogate-assisted whale optimization algorithm for fractional chaotic systems' parameters identification. <i>Engineering Applications of Artificial Intelligence</i> 110 , 104685 (2022).
2021	8. Wang, S. , Yu, Y. & Hu, W. Static and dynamic solar photovoltaic models' parameters estimation using hybrid Rao optimization algorithm. <i>Journal of Cleaner Production</i> , 128080 (2021).
2020	9. Lu, Z., Yu, Y., Wang, S. & et al. A fractional-order SEIHDR model for COVID-19 with inter-city networked coupling effects. <i>Nonlinear Dynamics</i> , 1–14 (2020).

Research Experience

Apr 2020 – Dec 2020	Project leader – CircRNA Profiling and CeRNA Construction <ul style="list-style-type: none">Using the high-throughput sequencing results of circRNA (RNA in circular) to profile the character of circRNAs and to predict its potential function through network.
Sep 2018 – Jul 2019	Project leader – Classifier for Meditation based on EEG and Machine Learning Method <ul style="list-style-type: none">Developing an EEG classifier to discriminate between meditation and problem-solving mind states. It achieved an accuracy above 90%.
Sep 2016 – Jul 2017	Project leader – Detection of Mutated Genes <ul style="list-style-type: none">Employing the bioinformatic methods to analyze the correlation between the production performance and mutated genes of lactating cows.

Teaching Experience

Feb 2025 - Mar 2025	Teacher Assistant – Project of data analysis for graduates in French <ul style="list-style-type: none">Teaching conceptions, tutoring, and marking.
Oct 2024 - Dec 2024	Teacher Assistant – Algorithm and programming for graduates in French <ul style="list-style-type: none">Marking, tutoring, and assisting in the design of lessons.

Work Experience

Sep 2021 - Oct 2022	AI Intern – Schlumberger, Beijing, China <ul style="list-style-type: none">Using supervised learning and numerical methods to predict the mechanical formation based on well logging data.
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Honors

Nov 2020	Third Prize – National Modeling Competition of Huawei
Apr 2017	Second Prize – Mathematical Contest in Modeling (MCM)
Apr 2017	First Prize – National Innovation Competition for Undergraduates

Language Skills

Chinese	Native speaker	French	B2
English	IELST: 7.5; Gre: V(159), Q(168)	Arabic	A1

Software Skills

Programming	Python, Matlab	Statistics	R, SQL
Typography	MS office, L^AT_EX	Others	Photoshop, Adobe Illustrator