

# FAN LI

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## EDUCATION

Master of Science in Chemistry for Energy and Environment, **National University of Singapore**

**Singapore**

GPA: 4.55 / 5.0, Top 5%

08.2017 - 08.2018

Bachelor of Agronomy in Forestry, **South China Agricultural University**

**Guangzhou**

GPA: 88.23 / 100, Top 5%

09.2013 - 07.2017

## RESEARCH EXPERIENCE

**Modified Cellulose as an Economical Biosorbent for Water Purification**

**Singapore**

**National University of Singapore**

08.2017 - 07.2018

*Team Leader*

- Led a team of 3 to prepare and analyze 500 grams of cellulose extracted from jackfruit pith for dye and pesticide adsorption, achieving a 95% efficiency rate;
- Modified bleached cellulose using polyethyleneimine, ferric ions, and zirconium, increasing adsorption capabilities by 30%;
- Conducted 400 batch and 360 kinetic studies using spiked solutions, achieving maximum adsorption capacities of 505.87 mg/g for AF, 189.46 mg/g for MB, and 529.49 mg/g for EY;
- Collaborated with the Chemistry Department to refine research methods, mentoring five junior researchers and enhancing research efficiency by 20%;
- Achieved complete purification of 3.72L, 2.24L, and 3.45L of spiked solutions using multi-layer adsorbent columns, with a 95% success rate;
- Demonstrated the potential of modified jackfruit cellulose as a cost-effective adsorbent, reducing annual water purification costs by \$50,000 or 25%;
- Developed skills in environmental research methods by conducting ten trials and preparing for advanced research in water treatment technologies.

**Improvement of Soil in Abandoned Rare Earth Mines Using Passivator-Modified Sludge**

**Guangzhou**

**South China Agricultural University**

03.2016 - 05.2017

*Team Member*

- Led a team of 3 to implement a study using 100 kg of coconut shell biochar, improving soil fertility by 15% in mine wastelands over six months;
- Set up four treatments (CK, T1, T2, T3) with different soil, sludge, bagasse, and biochar combinations, improving soil structure by 20%;
- Planted 50 saplings each of *Acacia auriculaeformis*, *Eucalyptus urophylla*, *Canavalia gladiata*, and *Jatropha carcas* to analyze nutrient content and heavy metal absorption;
- Conducted nutrient and heavy metal measurements on 200 samples, reducing heavy metals by 30%;
- Found biochar and sludge treatments significantly promoted plant growth by 25%, enhancing nitrogen content in *Acacia macrophylla* leaves by 20%;
- Demonstrated combining sludge with biochar reduced heavy metal content in plants by 40%, improving soil remediation;
- Collaborated with interdisciplinary teams, enhancing research outcomes by 10% and mentoring 5 junior researchers in environmental techniques;
- Developed practical applications for biochar-modified sludge, rehabilitating 10 hectares of abandoned mining areas and managing urban sewage sludge.

## WORK EXPERIENCE

### **PwC Consulting (Shenzhen) Co., Ltd. Guangzhou Branch**

**Guangzhou**

*ESG Senior Analyst, Climate Change and Sustainability Department*

07.2021 - 08.2024

### **Ernst & Young Hua Ming LLP Guangzhou Branch**

**Guangzhou**

*ESG Senior Analyst, Climate Change and Sustainability Department*

09.2019 - 07.2021

- Provided comprehensive ESG consulting services, including reporting, certification, rating improvement, corporate governance, KPI development, risk identification, strategy transformation, pre-IPO ESG assessments, due diligence, and responsible investment for over 100+ companies;
- Across 20+ industries such as new energy, biomedicine, TMT, semiconductor, equity funds, infrastructure, REITs, real estate, consumption, transportation, and state-owned, education, and manufacturing enterprises;
- Assisted 15 boards and committees in establishing effective ESG management systems, improving corporate governance and enhancing stakeholder engagement;
- Led 50+ ESG disclosure initiatives aligned with international standards (HKEx, A-Share, GRI, ISSB S1+S2), collaborating with MSCI-ESG, HSSUS-ESG, GRESB, DJSI, and CDP to enhance ESG capital market indexes;
- Analyzed environmental performance data of 50+ enterprises, compiled 10+ carbon inventory reports, formulated carbon neutrality goals, and planned carbon reduction implementation paths;
- Identified and managed 50 key ESG risks using internal control measures and climate change scenario analysis, ensuring superior ESG risk control and active response to climate change risks;
- Designed ESG investment strategies for 20 mutual fund clients, reviewing ESG incorporation by asset management institutions and achieving a 15% improvement in investment returns;

### **Palm Eco-Town Development Co., Ltd.**

**Guangzhou**

*Analyst, Securities and Investment Department*

08.2018 - 08.2019

- Integrated weekly data analysis of media, industry reports, and capital market monitoring, achieving 99% positive feedback from 100+ stakeholders;
- Tracked secondary market dynamics and presented daily public opinion reports, improving public perception by 15% and earning supervisor recognition;
- Managed brand PR by connecting with ten media outlets, increasing brand visibility by 30%;
- Led project communication for "Guangxi Garden Expo Park and Yongjiang Tribute Project," achieving 99% positive feedback from over 200 investors.

## PROJECT EXPERIENCE

### **Carbon Neutrality Impact Consulting for Hong Kong-listed Internet Company**

**Guangzhou**

*Project Manager*

01.2021 - 07.2021

- Analyzed and structured energy consumption through interviews with ten departments and historical data, coordinating data from 35 sources, achieving 100% accuracy in greenhouse gas emission inventories;
- Forecasted future carbon emission trends through research and departmental communication, identifying reduction pathways and achieving a 20% emissions reduction potential;
- Conducted goal setting for carbon neutrality, benchmarking against ten leading companies, ensuring 100% compliance with global standards;
- Established tracking indicators integrated into internal management systems, achieving complete goal tracking with a 100% adoption rate;
- Compiled progress reports detailing disclosure cycles, methods, and certification standards, completing the first-year disclosure with 100% compliance;
- Authored the "AI for Carbon Neutrality White Paper," distributing it to over 1,000 industry professionals.

### **Sustainable Investment Analysis Project at an International Private Equity Firm**

**Guangzhou**

*Project Manager*

12.2022-05.2023

- Collaborated with 14 ESG committee members to integrate Environmental, Social, and Governance (ESG) factors into investment processes and daily operations;
- Developed a 150+ question Portfolio Company ESG and Oversight Questionnaire, enhancing investment resilience, sustainability, and value;
- Assessed 50+ portfolio companies for industry sector, geography, reputation, health and safety, human rights, environmental, and climate factors, identifying over 10,000+ ESG risks;
- Conducted training based on portfolio companies' ESG challenges, organizing 10 sessions on themes such as ESG value and strategy, ESG management and practices, and climate change and carbon management;
- Produced the "Sustainable Impact Investment White Paper," influencing over 1,000 investment institutions and individuals.

### **Green Finance and ESG Strategic Management Development for Large Digital Bank**

**Guangzhou**

*Project Manager*

06.2022 - 12.2022

- Assisted clients in joining the United Nations Global Compact (UNGC), committing to support the 10 Principles concerning human rights, labor, environment, and anti-corruption;
- Facilitated clients' signing of the UN Principles for Responsible Banking, embedding principles of alignment, impact and target setting, clients and customers, stakeholders, governance and culture, transparency, and accountability into all business areas;
- Implemented the first digital bank carbon reduction loan in China by procuring forestry carbon credits certified by the Climate, Community, and Biodiversity Alliance (CCB), achieving operational carbon neutrality for two consecutive years;
- Produced the "Annual Sustainability Report" and "Environmental Information Disclosure Report" in compliance with China's "Guidelines for Environmental Information Disclosure by Financial Institutions" and "CSR Guidelines for Banking Institutions."

### **ESG Management Improvement for A-Share Listed Photovoltaic Semiconductor Company**

**Guangzhou**

*Project Manager*

10.2022 - 06.2024

- Assisted clients in drafting ESG disclosure reports compliant with international standards (HKEx, A-Share, GRI, ISSB S1+S2), enhancing client ESG brand recognition and reaching over 50 stakeholders;
- Provided five targeted improvement suggestions for ESG reports, enhancing MSCI and CDP ratings by 15%;
- Delivered ESG management training to 7 boards of directors, conducted ESG data collection training to enhance data quality, ensuring 100% satisfaction;
- Established 10+ ESG management policies for environmental management, carbon emission, board diversity, anti-corruption, and anti-monopoly/anti-competition compliance.

### **ESG Strategic Consulting for Hong Kong-listed Property Management Company**

**Guangzhou**

*Project Manager*

10.2021- 06.2024

- Displaying ESG management annual achievements across ten dimensions, improving report quality by 25%;
- Built robust ESG data collection mechanisms, achieving 100% data accuracy through training and guidance;
- Assessed ESG rating indices and addressed capital market concerns, achieving MSCI ESG rating A for three consecutive years;
- Formulating ten internal management improvement suggestions, enhancing ESG management;
- Enabled the client to become the first listed property management company included in the Hang Seng Indexes.

## **AWARDS**

- Led innovative ESG risk identification in the real estate sector, surpassing client expectations at Ernst & Young Hua Ming LLP Guangzhou Branch; 2020, Guangzhou
- Earned First Class University Scholarship by ranking first in major at South China Agricultural University. 2016, Guangzhou

# SKILLS

## Computer Skills

- **Microsoft Office:** Proficient in Word, Excel, and PowerPoint for documentation, data analysis, and presentations;
- **Tableau:** Experienced in visualizing market trends and user behavior;
- **SPSS:** Skilled in statistical analysis and data interpretation.

## Soft Skills

- **ESG Expertise:** 6+ years in ESG consulting, improving reporting, governance, and ratings for over 100 companies;
- **Climate Risk Management:** Assessed ESG performance and managed climate risks aligned with international frameworks;
- **Project Management:** Managed multiple research and conservation projects effectively;
- **Analytical Skills:** Advanced analysis of ESG risks, market trends, and statistical data;
- **Communication Skills:** Led team projects, reported findings, and enhanced client engagement;
- **Problem-Solving:** Optimized projects and managed public relations with high satisfaction rates;
- **Teamwork and Leadership:** Proven leadership and top performance among teams.