蒋泽

基本信息：

性别： 男　　**出生日期：** 1989 年 5 月　　**电子邮箱：** ze.jiang@unsw.edu.au; ze.jiang@hotmail.com

教育背景：

新南威尔士大学博士，悉尼，澳大利亚
2018–现在（预计 2021 年 6 月）

专业：水利工程
导师：Ashish Sharma (国际水文统计协会主席 President of International Commission of Statistical Hydrology (ICSH-IAHS))，《Journal of Hydrology》和《Water Resources Research》期刊副主编。
荣誉：UIPA 新南威尔士大学全额奖学金
世界排名：学校 43 (2020 QS)；专业 5 (2020 ARWU)

欧盟联合培养硕士
勃兰登堡工业大学，科特布斯，德国
纽卡斯尔大学，纽卡斯尔，英国
尼斯大学，尼斯，法国
2013–2015

专业：水信息和水资源管理 (GPA: 17.2/20.0)
毕业论文：基于 QGIS 环境应用 VC++等流时面积模型的开发和应用
荣誉：优秀毕业生，欧盟伊拉斯莫(Erasmus Mundus)全额奖学金

河海大学工程学士，南京，中国
2008–2012

专业：环境工程 (GPA: 4.5/5.0)
毕业论文：水环境中罗红霉素对大型蚤生长和繁殖的影响
荣誉：河海大学 2012 届优秀毕业生荣誉，国家励志奖学金

研究方向：

- 应用气候模型模拟研究气候变化对水文循环的影响（例如，干旱和洪水）
- 基于小波分析的水文预报新方法和框架
- 海绵城市以及城市洪涝模拟

科研经历：

新加坡国立大学热带海洋科学研究所　　**（2015 年 11 月–2018 年 2 月）**　　**研究工程师**

- 新加坡公共事业局(PUB)的 ABC Water(海绵城市)的效果评估
- 世界银行(IFC,WB)的利用区域气候模型开发基于旱灾保险的指数，用于有效的灾害风险转移
- 新加坡国立大学热带海洋研究所(TMSI)的气候变化对越南湄公河流域粮食产量的影响
- 新加坡公共事业局(PUB)的气候变化对城市洪涝的影响

德国柏林 Ingenieurgesellschaft Prof. Dr. Sieker mbH 公司　　**（2015 年 3 月–2015 年 9 月）**　　**实习生**

- 关于沙特阿拉伯的 Hafar Al-Batin 城市洪水模拟和防洪工程措施
- 基于 QGIS 环境应用 VC++等流时面积模型的开发和应用

论文成果：https://www.researchgate.net/profile/Ze_Jiang3

精选期刊发表文章

1. **Jiang, Z**., Sharma, A., & Johnson, F. (2021). Variable transformations in the spectral domain – Implications for hydrologic forecasting. ***Journal of Hydrology***, *under review*. (SCI, 5.08, 1区)
2. **Jiang, Z**., Rashid, M. M., Johnson, F., & Sharma, A. (2020). A wavelet-based tool to modulate variance in predictors: An application to predicting drought anomalies. ***Environmental Modelling & Software***, 104907. (SCI, 5.32, 1区)
3. **Jiang, Z**., Sharma, A., & Johnson, F. (2020). Refining predictor spectral representation using wavelet theory for improved natural system modelling. ***Water Resources Research***, 56(3), e2019WR026962. (SCI, 4.73, 1 区)
4. Hohl, R., **Jiang, Z**., Tue Vu, M., Raghavan, S. V., & Liong, S. Y. (2020). Using a regional climate model to develop index-based drought insurance for sovereign disaster risk transfer. ***Agricultural Finance Review***, 81(1), 151-168. (SCI, 2.30, 1区)
5. **Jiang, Z**., Sharma, A., & Johnson, F. (2019). Assessing the sensitivity of hydro-climatological change detection methods to model uncertainty and bias. ***Advances in Water Resources***, 134, 103430. (SCI, 4.49, 1区)
6. **Jiang, Z**., Raghavan, S. V., Hur, J., Sun, Y., Liong, S.-Y., Nguyen, V. Q., & Van Pham Dang, T. (2019). Future changes in rice yields over the Mekong River Delta due to climate change - Alarming or alerting? ***Theoretical and Applied Climatology***, 137(1), 545-555. (SCI, 2.73, 2 区)
7. **Jiang, Z**., Molkenthin, F., & Sieker, H. (2016). Urban Surface Characteristics Study Using Time-area Function Model: A Case Study in Saudi Arabia. ***Procedia Engineering***, 154, 911-918. (SCI, 1.04, 会议论文)

学术汇报：

1. Jiang, Z., Sharma, A., & Johnson, F. (2020). Hydro-climatological forecasting: A view from the spectral domain. In ***AGU Fall Meeting 2020***. AGU, Oral presentation, Online, San Francisco, CA, USA, 15 December 2020.
2. Sharma, A., Jiang, Z., and Johnson, F. (2020). Forecasting drought revisited - the importance of spectral transformations to dominant atmospheric predictor variables, ***EGU General Assembly 2020***, Invited talk, Online, 4-8 May 2020, EGU2020-12334.
3. Jiang, Z., Sharma, A., & Johnson, F. (2019). Refining predictor spectral representation using wavelet theory for improved natural system modelling, 23rd International Congress on Modelling and Simulation (***MODSIM***), Oral presentation, Canberra, Australia, 6 December 2019.
4. Jiang, Z., Sharma, A., & Johnson, F. (2019). Drought prediction for improved water resource management: A wavelet-based system prediction approach, ***STAHY 2019***, Oral presentation, Nanjing, Jiangsu, China, 20 October 2019.
5. Jiang, Z., Sharma, A., & Johnson, F. (2018). Assessing the impact of systematic biases in detection of hydrologic change across Australia, ***STAHY 2018***, Oral presentation, Adelaide, South Australia, Australia, 18 September 2018.
6. Jiang, Z., Raghavan, S. V., Hur, J., Sun, Y., & Liong, S.-Y. (2017). Impacts of Climate Change on Rice Crop Yields in Vietnam, ***Asia Oceania Geosciences Society (AOGS) 2017***, Oral presentation, Singapore, 11 August 2017.

著作章节：

1. Raghavan, S. V., Ze, J., Hur, J., Jiandong, L., & Ngoc, N. (2019). ASEAN Food Security under the 2 C-4 C Global Warming Climate Change Scenarios. In V. Anbumozhi, M. Breiling, & V. Reddy (Eds.), Towards a Resilient ASEAN: Disasters, Climate Change, and Food Security: Supporting ASEAN Resilience (Vol. 1, pp. 37-52). Jakarta, Indonesia: Economic Research Institute for ASEAN and East Asia.
2. Kim, D., Sun, Y., Wendi, D., Jiang, Z., Liong, S.-Y., & Gourbesville, P. (2018). Flood modelling framework for Kuching City, Malaysia: overcoming the lack of data. In Advances in Hydroinformatics (pp. 559-568): Springer, Singapore.

推荐人：

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My supervisor for Research Engineer roles at the National University of Singapore

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