江蘇大學

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Curriculum Vitae

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Curriculum Vitae

Self Introduction

Chinese Name:	王从彦	**Political Status:**	Communist Party of China
English Name:	Cong-yan WANG	**Professional Title:**	Professor
Nationality:	Han	**Academic Title:**	Ph.D. Supervisor
Gender:	Male	**Hobbies:**	Literature
Date of Birth:	June 23, 1982	**Marital Status:**	Married
Citizenship:	P. R. China	**Health:**	Excellent

Research Interests: Invasion Ecology & Environmental Microbial Ecology

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Educational Background

University:	Nanjing University	**Degree:**	Doctor of Science
Major:	Biology	**Direction:**	Environmental Ecology

Professional Experience

1. July, 2021–Present Professor, Ph.D. Supervisor, School of the Environment and Safety Engineering, Jiangsu University
2. January, 2019–June, 2021 Associate Professor, Ph.D. Supervisor, School of the Environment and Safety Engineering, Jiangsu University
3. July, 2014–December, 2018 Associate Professor, Master's Supervisor, School of the Environment and Safety Engineering, Jiangsu University
4. January, 2014–June, 2014 Lecturer, Master's Supervisor, School of the Environment and Safety Engineering, Jiangsu University
5. August, 2012–December, 2013 Lecturer, School of the Environment and Safety Engineering, Jiangsu University
6. August, 2011–July, 2012 Lecturer, School of Life Sciences, Nantong University

Research Interests

1. Invasion Ecology (mainly the mechanisms driving the successful invasion of invasive alien plants)
2. Environmental Microbial Ecology (mainly the community structure of the key functional microbial communities involved in soil N cycling as well as the corresponding driving mechanisms)

Representative publications

1. **Wang CY***, Cheng HY, Wang S, Wei M, Du DL. 2021. Plant community and the influence

of plant taxonomic diversity on community stability and invasibility: A case study based on *Solidago canadensis* L. *Science of the Total Environment* 768: 144518. DOI: 10.1016/j.scitotenv.2020.144518.

2. **Wang CY***, Wei M, Wang S, Wu BD, Cheng HY. 2020. *Erigeron annuus* (L.) Pers. and *Solidago canadensis* L. antagonistically affect community stability and community invasibility under the co-invasion condition. *Science of the Total Environment* 716: 137128. DOI: 10.1016/j.scitotenv.2020.137128. (ESI Highly Cited Paper)
3. **Wang CY***, Jiang K, Zhou JW, Wu BD. 2018. *Solidago canadensis* invasion affects soil N-fixing bacterial communities in heterogeneous landscapes in urban ecosystems in East China. *Science of the Total Environment* 631–632: 702–713. DOI: 10.1016/j.scitotenv.2018.03.061. (ESI Highly Cited Paper)
4. **Wang CY**, Guo P, Han GM, Feng XG, Zhang P, Tian XJ*. 2010. Effect of simulated acid rain on the litter decomposition of *Quercus acutissima* and *Pinus massoniana* in forest soil microcosms and the relationship with soil enzyme activities. *Science of the Total Environment* 408(13): 2706–2713. DOI: 10.1007/s10646-016-1614-1.
5. **Wang CY***, Wei M, Wang S, Wu BD, Du DL. 2020. Cadmium influences the litter decomposition of *Solidago canadensis* L. and soil N-fixing bacterial communities. *Chemosphere* 246: 125717. DOI: 10.1016/j.chemosphere.2019.125717. (ESI Highly Cited Paper)
6. **Wang CY***, Zhou JW, Liu J, Jiang K, Du DL*. 2017. Responses of soil N-fixing bacteria communities to *Amaranthus retroflexus* invasion under different forms of N deposition. *Agriculture, Ecosystems & Environment* 247: 329–336. DOI: 10.1016/j.agee.2017.07.012.
7. **Wang CY***, Jiang K, Zhou JW, Liu J, Wu BD. 2018. Responses of soil N-fixing bacterial communities to redroot pigweed (*Amaranthus retroflexus* L.) invasion under Cu and Cd heavy metal soil pollution. *Agriculture, Ecosystems & Environment* 267: 15–22. DOI: 10.1016/j.agee.2018.08.002.
8. **Wang CY***, Wu BD, Jiang K, Zhou JW, Du DL. 2019. Canada goldenrod invasion affect taxonomic and functional diversity of plant communities in heterogeneous landscapes in urban ecosystems in East China. *Urban Forestry & Urban Greening* 38: 145–156. DOI: 10.1016/j.ufug.2018.12.006.
9. **Wang CY***, Cheng HY, Wei M, Wang S, Wu BD, Du DL. 2021. Plant height and leaf size: Which one is more important in affecting the successful invasion of *Solidago canadensis* and *Conyza canadensis* in urban ecosystems? *Urban Forestry & Urban Greening* 59: 127033. DOI: 10.1016/j.ufug.2021.127033.
10. **Wang CY***, Zhou JW, Liu J, Du DL*. 2017. Responses of soil N-fixing bacteria communities to invasive species over a gradient of simulated nitrogen deposition. *Ecological Engineering* 98(1): 32–39. DOI: 10.1016/j.ecoleng.2016.10.073.
11. **Wang CY***, Jiang K, Liu J, Zhou JW, Wu BD. 2018. Moderate and heavy *Solidago*

canadensis L. invasion are associated with decreased taxonomic diversity but increased functional diversity of plant communities in East China. *Ecological Engineering* 112(3): 55–64. DOI: 10.1016/j.ecoleng.2017.12.025. (ESI Highly Cited Paper)

12. **Wang CY***, Wu BD, Jiang K, Zhou JW, Liu J, Lv YN. 2019. Canada goldenrod invasion cause significant shifts in the taxonomic diversity and community stability of plant communities in heterogeneous landscapes in urban ecosystems in East China. *Ecological Engineering* 127(2): 504–509. DOI: 10.1016/j.ecoleng.2018.10.002.
13. **Wang CY***, Cheng HY, Wu BD, Jiang K, Wang S, Wei M, Du DL. 2021. The functional diversity of native ecosystems increases during the major invasion by the invasive alien species, *Conyza canadensis*. *Ecological Engineering* 159: 106093. DOI: 10.1016/j.ecoleng.2020.106093.
14. **Wang CY***, Xiao HG, Zhao LL, Liu J, Wang L, Zhang F, Shi YC, Du DL*. 2016. The allelopathic effects of invasive plant *Solidago canadensis* on seed germination and growth of *Lactuca sativa* enhanced by different types of acid deposition. *Ecotoxicology* 25(3): 555–562. DOI: 10.1007/s10646-016-1614-1. (ESI Highly Cited Paper)
15. **Wang CY***, Jiang K, Wu BD, Zhou JW, Lv YN. 2018. Silver nanoparticles with different particle sizes enhance the allelopathic effects of Canada goldenrod on the seed germination and seedling development of lettuce. *Ecotoxicology* 27(8): 1116–1125. DOI: 10.1007/s10646-018-1966-9.
16. **Wang CY***, Wu BD, Jiang K. 2019. Allelopathic effects of Canada goldenrod leaf extracts on the seed germination and seedling growth of lettuce reinforced under salt stress. *Ecotoxicology* 28(1): 103–116. DOI: 10.1007/s10646-018-2004-7.
17. **Wang CY***, Zhou JW, Liu J, Jiang K, Xiao HG, Du DL*. 2018. Responses of the soil fungal communities to the co-invasion of two invasive species with different cover classes. *Plant Biology* 20(1): 151–159. DOI: 10.1111/plb.12646.
18. **Wang CY**[1], Han GM[1], Jia Y, Feng XG, Tian XJ*. 2012. Insight into the temperature sensitivity of forest litter decomposition and soil enzymes in subtropical forest in China. *Journal of Plant Ecology* 5(3): 279–286. DOI: 10.1093/jpe/rtr013.
19. **Wang CY***, Zhou JW, Jiang K, Liu J, Du DL*. 2017. Responses of soil N-fixing bacteria communities to invasive plant species under different types of simulated acid deposition. *Science of Nature* 104(5–6): 43. DOI: 10.1007/s00114-017-1463-7.
20. **Wang CY***, Zhou JW, Liu J, Jiang K. 2017. Differences in functional traits between invasive and native *Amaranthus* species under different forms of N deposition. *Science of Nature* 104(7–8): 59. DOI: 10.1007/s00114-017-1482-4.
21. **Wang CY***, Jiang K, Zhou JW, Xiao HG, Wang L. 2018. Responses of soil bacterial communities to *Conyza canadensis* invasion with different cover classes along a climatic gradient. *CLEAN-Soil, Air, Water* 46(8): 1800212. DOI: 10.1002/clen.201800212.
22. **Wang CY***, Liu J, Xiao HG, Zhou JW. 2016. Differences in leaf functional traits between

Rhus typhina and native species. *CLEAN-Soil, Air, Water* 44(11): 1591–1597. DOI: 10.1002/clen.201600144.

23. **Wang CY***, Wu BD, Jiang K, Zhou JW. 2018. Differences in functional traits between invasive and native *Amaranthus* species under simulated acid deposition with a gradient of pH levels. *Acta Oecologica* 89: 32–37. DOI: 10.1016/j.actao.2018.04.006.
24. **Wang CY**[1], Han GM[1], Jia Y, Feng XG, Guo P, Tian XJ*. 2011. Response of litter decomposition and related soil enzyme activities to different forms of nitrogen fertilization in a subtropical forest. *Ecological Research* 26(3): 505–513. DOI: 10.1007/s11284-011-0805-8.
25. **Wang CY**, Feng XG, Guo P, Han GM, Tian XJ*. 2010. Response of degradative enzymes to N fertilization during litter decomposition in a subtropical forest through a microcosm experiment. *Ecological Research* 25(6): 1121–1128. DOI: 10.1007/s11284-010-0737-8.
26. **Wang CY***, Zhou JW, Jiang K, Liu J. 2017. Differences in leaf functional traits and allelopathic effects on seed germination and growth of *Lactuca sativa* between red and green leaves of *Rhus typhina*. *South African Journal of Botany* 111: 17–22. DOI: 10.1016/j.sajb.2017.03.019.
27. **Wang CY***, Wu BD, Jiang K, Zhou JW. 2018. Effects of different types of heavy metal pollution on functional traits of invasive redroot pigweed and native red amaranth. *International Journal of Environmental Research* 12(4): 419–427. DOI: 10.1007/s41742-018-0101-3.
28. **Wang CY***, Zhou JW, Liu J, Xiao HG, Wang L. 2017. Functional traits and reproductive allocation strategy of *Conyza canadensis* as they vary by invasion degree along a latitude gradient. *Polish Journal of Environmental Studies* 26(3): 1289–1297. DOI: 10.15244/pjoes/66175.
29. **Wang CY***, Zhou JW, Liu J, Wang L, Xiao HG. 2017. Reproductive allocation strategy of two herbaceous invasive plants across different cover classes. *Polish Journal of Environmental Studies* 26(1): 355–364. DOI: 10.15244/pjoes/64240.
30. **Wang CY***, Xiao HG, Liu J, Zhou JW, Du DL*. 2016. Insights into the effects of simulated nitrogen deposition on leaf functional traits of *Rhus typhina*. *Polish Journal of Environmental Studies* 25(3): 1279–1284. DOI: 10.15244/pjoes/61788.
31. **Wang CY***, Lv YN, Liu XY, Wang L. 2013. Ecological effects of atmospheric nitrogen deposition on soil enzyme activity. *Journal of Forestry Research* 24(1): 109–114. DOI: 10.1007/s11676-013-0330-4.
32. **Wang CY***, Liu J, Xiao HG, Zhou JW, Du DL. 2017. Nitrogen deposition influences the allelopathic effect of an invasive plant on the reproduction of a native plant: *Solidago canadensis versus Pterocypsela laciniata*. *Polish Journal of Ecology* 65(1): 87–96. DOI: 10.3161/15052249PJE2017.65.1.008.
33. Guo P, **Wang CY**, Jia Y, Wang Q, Han GM, Tian XJ*. 2011. Responses of soil microbial biomass and enzymatic activities to fertilizations of mixed inorganic and organic nitrogen at

a subtropical forest in East China. *Plant and Soil* 338(1–2): 355–366. DOI: 10.1007/s11104-010-0550-8.

34. Lv YN, **Wang CY**, Jia YY, Wang WW, Ma X, Du JJ, Pu GZ, Tian XJ*. 2014. Effects of sulfuric, nitric, and mixed acid rain on litter decomposition, soil microbial biomass, and enzyme activities in subtropical forests of China. *Applied Soil Ecology* 79: 1–9. DOI: 10.1016/j.apsoil.2013.12.002.

35. Lü YN[1], **Wang CY**[1], Jia YY, Du JJ, Ma X, Wang WW, Pu GZ, Tian XJ*. 2013. Responses of soil microbial biomass and enzymatic activities to different forms of organic nitrogen deposition in the subtropical forests in East China. *Ecological Research* 28(3): 447–457. DOI: 10.1007/s11284-013-1033-1.

36. Lv YN[1], **Wang CY**[1], Wang FY, Zhao GY, Pu GZ, Ma X, Tian XJ*. 2013. Effects of nitrogen addition on litter decomposition, soil microbial biomass, and enzyme activities between leguminous and non-leguminous forests. *Ecological Research* 28(5): 793–800. DOI: 10.1007/s11284-013-1060-y.

37. Guo P, **Wang CY**, Feng XG, Su MF, Zhu WQ, Tian XJ*. 2011. Mixed inorganic and organic nitrogen addition enhanced extracellular enzymatic activities in a subtropical forest soil in East China. *Water, Air, & Soil Pollution* 216(1–4): 229–237. DOI: 10.1007/s11270-010-0530-x.

38. Si CC, Liu XY, **Wang CY***, Wang L, Dai ZC, Qi SS, Du DL*. 2013. Different degrees of plant invasion significantly affect the richness of the soil fungal community. *PLoS One* 8(12): e85490. DOI: 10.1371/journal.pone.0085490.

39. Wang S, Cheng HY, Wei M, Wu BD, **Wang CY***. 2020. Litter decomposition process dramatically declines the allelopathy of *Solidago canadensis* L. on the seed germination and seedling growth of *Lactuca sativa* L. *International Journal of Phytoremediation* 22(12): 1295–1303. DOI: 10.1080/15226514.2020.1765140.

40. Wang S, Wei M, Wu BD, Cheng HY, **Wang CY***. 2020. Combined nitrogen deposition and Cd stress antagonistically affect the allelopathy of invasive alien species Canada goldenrod on the cultivated crop lettuce. *Scientia Horticulturae* 261: 108955. DOI: 10.1016/j.scienta.2019.108955. (ESI Hot Paper and ESI Highly Cited Paper)

41. Wei M, Wang S, Wu BD, Cheng HY, **Wang CY***. 2020. Heavy metal pollution improves allelopathic effects of Canada goldenrod on lettuce germination. *Plant Biology* 22(5): 832–838. DOI: 10.1111/plb.13126.

42. Cheng HY, Wang S, Wei M, Yu YL, **Wang CY***. 2021. Effect of leaf water extracts of four Asteraceae alien invasive plants on germination performance of *Lactuca sativa* L. under acid deposition. *Plant Ecology* 222(4): 433–443. DOI: 10.1007/s11258-021-01117-5.

43. Wei M, Wang S, Cheng HY, Wu BD, **Wang CY***. 2020. The mixed silicon and cadmium synergistically impact the allelopathy of *Solidago canadensis* L. on native plant species *Lactuca sativa* L. *Ecotoxicology* 29(7): 1095–1104. DOI: 10.1007/s10646-020-02251-y.

44. Wei M, Wang S, Wu BD, Cheng HY, **Wang CY***. 2020. Combined allelopathy of Canada goldenrod and horseweed on the seed germination and seedling growth performance of lettuce. *Landscape and Ecological Engineering* 16(4): 299–306. DOI: 10.1007/s11355-020-00421-y.

45. Wu BD, Zhang HS, Jiang K, Zhou JW, **Wang CY***. 2019. *Erigeron canadensis* affects the taxonomic and functional diversity of plant communities in two climate zones in the North of China. *Ecological Research* 34(4): 535–547. DOI: 10.1111/1440-1703.12024.

46. Cheng HY, Wang S, Wei M, Yu YL, **Wang CY***. 2021. Alien invasive plant *Amaranthus spinosus* mainly altered the community structure instead of the α diversity of soil N-fixing bacteria under drought. *Acta Oecologica* 113: 113: 103788. DOI: 10.1016/j.actao.2021.103788.

47. Wang S, Wei M, Cheng HY, Wu BD, Du DL, **Wang CY***. 2020. Indigenous plant species and invasive alien species tend to diverge functionally under heavy metal pollution and drought stress. *Ecotoxicology and Environmental Safety* 205: 111160. DOI: 10.1016/j.ecoenv.2020.111160.

48. Cheng HY, Wu BD, Yu YL, Wang S, Wei M, **Wang CY***, Du DL. 2021. The allelopathy of horseweed with different invasion degrees in three provinces along the Yangtze River in China. *Physiology and Molecular Biology of Plants* 27(3): 483–495. DOI: 10.1007/s12298-021-00962-y.

49. Wang S, Wei M, Wu BD, Jiang K, Du DL, **Wang CY***. 2019. Degree of invasion of Canada goldenrod (*Solidago canadensis* L.) plays an important role in the variation of plant taxonomic diversity and community stability in eastern China. *Ecological Research* 34(6): 782–789. DOI: 10.1111/1440-1703.12049.

50. Wu BD, Wang L, Wei M, Wang S, Jiang K, **Wang CY***. 2019. Silver nanoparticles reduced the invasiveness of redroot pigweed. *Ecotoxicology* 28(8): 983–994. DOI: 10.1007/s10646-019-02097-z.

51. Cheng HY, Wang S, Wei M, Wu BD, Du DL, **Wang CY***. 2021. Reproductive allocation of *Solidago canadensis* L. plays a key role in its invasiveness across a gradient of invasion degrees. *Population Ecology* 63(4): 290–301. DOI: 10.1002/1438-390X.12091.

52. Wu RM, Wu BD, Cheng HY, Wang S, Wei M, **Wang CY***. 2021. Drought enhanced the allelopathy of goldenrod on the seed germination and seedling growth performance of lettuce. *Polish Journal of Environmental Studies* 30(1): 423–432. DOI: 10.15244/pjoes/122691.

53. Wei M, Wang S, Xiao HG, Wu BD, Jiang K, **Wang CY***. 2020. Co-invasion of daisy fleabane and Canada goldenrod pose synergistic impacts on soil bacterial richness. *Journal of Central South University* 27(6): 1790–1801. DOI: 10.1007/s11771-020-4408-9.

54. Wei M, Wang S, Wu BD, Jiang K, Zhou JW, **Wang CY***. 2020. Variability of leaf functional traits of invasive tree *Rhus typhina* L. in North China. *Journal of Central South University* 27(1): 155–163. DOI: 10.1007/s11771-020-4285-2.

55. Wu BD, Wang S, Wei M, Zhou JW, Jiang K, Du DL, **Wang CY***. 2019. The invasive tree staghorn sumac affects soil N_2-fixing bacterial communities in north China. *Plant Biology* 21(5): 951–960. DOI: 10.1111/plb.13003.

56. Lu YJ[1], Wang YF[1], Wu BD, Wang S, Wei M, Du DL, **Wang CY***. 2020. Allelopathy of three Compositae invasive alien species on indigenous *Lactuca sativa* L. enhanced under Cu and Pb pollution. *Scientia Horticulturae* 267: 109323. DOI: 10.1016/j.scienta.2020.109323.

57. Wei M, Wang S, Xiao HG, Wu BD, Jiang K, Du DL, **Wang CY***. 2020. Stand-alone or co-occurring invasive plant species do not modify the diversity of the soil N_2-fixing bacterial community. *Plant Ecology & Diversity* 13(3–4): 277–287. DOI: 10.1080/17550874.2020.1729887.

Contact Methods

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