

Curriculum Vitae

Personal information



First name / Family name	Xiaogang Yin		
Address(es)			
Telephone			
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E-mail	xiaogangyin87@163.com		
Nationality	China		
Date of birth			
Gender	Male		

Personal statement

I had received my PhD degree on 28th June 2015 from China Agricultural University (CAU). Then I had been a postdoctoral researcher in Aarhus University during July 2015 to April 2016. I have been included in several national and international projects in crop production, crop modelling, climate change and N cycling since 2010. I am skilled in crop modelling, R software and agricultural statistics. Generally, I have published four papers in high ranking journals in agronomy from my PhD study. Besides, I have fished another three manuscripts in my postdoctoral work, one of which is now under revision and another one is under review. Up to now, I have finished two oral presentations in international conferences. Moreover, I reviewed several manuscripts for international peer-reviewed journals, the latest one was for Environment International.

I will try to apply for a permanent position in CAU after I finished the contract in INRA if I were a successful candidate. I plan to generate a field experiment focus on crop rotations with different crop types, crop sequences, N fertilizer application and irrigation management in North China Plain in order to mitigate the negative impacts of agricultural production on environment and improve water use efficiency (WUE) and Nitrogen use efficiency (NUE). Soil-crop models will be an important tool in my future research career in investigating the carbon, nitrogen and water dynamics in cropping systems, and in testing the impacts of climate change on crop production. Furthermore, I plan to develop a process-based soil-crop model based on our experimental data in China ten years later.

Generally, modelling SOC storage in cropping systems is very important for mitigating climate change, which has received great attention in agricultural research. Moreover, STCIS is a widely used process-based soil-crop model, which has been successfully applied for various crops. The STICS Project Team has very strong motivations and innovations to improve and extend STICS to more crops with different managements under pedo-climate conditions. Furthermore, the Agreenskills+ fellowship will be beneficial for applying for the permanent position

	<p>in CAU, as well for my future career. All of these have made me interested in applying for AgreenSkills+ fellowship.</p> <p>Explanation for a short time break (15.05.2016 - 30.10.2016): My new baby son was born on 22nd May 2016, and I came back to China from Denmark in middle May and stay with them until October. During this time period, I have spent one month to improve my skills in R in Nanjing Agricultural University in August, and spent another two months to learn and use STICS at home. I fished two manuscripts in MACSUR during this period. I will start a short period postdoctoral research in INRA UR AgrolImpact since 1st November 2016, the position is financially supported by Auto’N project, and I will responsible for assessing soil N mineralization in cropping systems using STICS.</p>
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Education and training

Location and dates	China Agricultural University (2010.09.01-2015.06.28, including MS and PhD together)
Title of qualification awarded	Doctoral degree of Agriculture
Principal subjects/occupational skills covered	My PhD project was to assess the impacts and adaptations of the cropping systems (including spring maize, rice, soybean and spring wheat) to climate change in Northeast China. In order to achieve the research goal, field experiments, historical climatic and crop production data, crop models, farmer surveys and expert surveys are all applied in the study. From the exercise during this period, my research abilities, such as designing a specific study, conducting maize field experiment, designing both expert survey and farmer survey questionnaires, using the DSSAT model and ArcGIS software, developing statistics models to analyse long term historic data based on R, had been significantly improved. Generally, my writing skills in both Chinese and English have been markedly improved.
Name of Institute	College of Agronomy and Biotechnology, China Agricultural University

Location and dates	Aarhus University (2013.09.01-2015.05.03)
Title of qualification awarded	Visiting PhD candidate
Principal subjects/occupational skills covered	During this period, I was concentrated on analysing the data sets collected from Northeast China, and writing scientific papers. Meanwhile, I was included in the MACSUR project, and had many opportunities to communicate with European scientists. My independent research ability and English writing skills significantly improved during this period. In addition, my ability in using R software to manipulate big data sets and using statistics in agricultural research also considerably enhanced.
Name of Institute	Department of Agroecology, Aarhus University

Work experience

Location and dates	Department of Agroecology, Aarhus University (2015.07.01-2016.4.30)
Occupation or position held	Postdoctoral researcher
Main activities and responsibilities	The postdoctoral work was focus on an inter-model comparison study conducted as part of European MACSUR project, which is the first study globally to investigate and compare how well a large ensemble of crop models in simulating N cycling in crop rotations. Communicating with 15 model teams across Europe, building a database based on the simulation outputs, and publishing papers were the main tasks of the work. The project also requires a great deal of knowledge in N cycling and modelling study, as well the strong ability in manipulating big data sets.
Name of employer	Jørgen Eivind Olesen

Languages

Mother tongue(s)	Chinese				
Other language(s)	Understanding		Speaking		Writing
<i>European level (*)</i>	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
(*) Common European Framework of Reference for Languages http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr					

Academic Record

Publications	<p>Accepted, in press and published articles / papers:</p> <ol style="list-style-type: none"> Yin, X., Kersebaum, K.C., Kollas, C., Sanmohan, B., Beaudoin, N., Manevski, K., Palosuo, T., Nendel, C., Wu, L., Hoffmann, M.P., Hoffmann, H., Sharif, B., Armas-Herrera, C.M., Bindi, M., Charfeddine, M., Conradt, T., Constantin, J., Ewert, F., Ferrise, R., Gaiser, T., Cortazar-Atauri, I.G.d., Giglio, L., Hlavinka, P., Lana, M., Launay, M., Louarn, G., Manderscheid, Mary, B., R., Mirschel, W., Moriondo, M., Öztürk, I., Pacholski, A., Ripoche-Wachter, D., Rötter, R.P., Ruget, F., Sharif, B., Trnka, M., Ventrella, D., Weigel, H.-J., Olesen, J.E., 2016. Multi-model uncertainty analysis in predicting grain N for crop rotations in Europe. European Journal of Agronomy. (Under revision, EURAGR5977). (My contribution to the paper is near 80%) (peer-reviewed journal) Yin, X., Olesen, J.E., Wang, M., Öztürk, I., Zhang, H., Chen, F., 2016. Impacts and adaptation of the cropping systems to climate change in the Northeast Farming Region of China. European Journal of Agronomy 78, 60-72. (My contribution to the study is near 90%) (peer-reviewed journal) Yin, X., Olesen, J.E., Wang, M., Kersebaum, K.C., Chen, H., Baby, S., Öztürk, I., Chen, F., 2016. Adapting maize production to drought in the Northeast Farming Region of China. European Journal of Agronomy 77, 47-58. (My contribution to the study is near 90%) (peer-reviewed journal) Yin, X., Jabloun, M., Olesen, J.E., Öztürk, I., Wang, M., Chen, F., 2016. Effects of climatic factors, drought risk and irrigation requirement on maize yield in the Northeast Farming Region of China. The Journal of Agricultural Science 154, 1171-1189. (My contribution to the study is near 90%) (peer-reviewed journal) Yin, X., Olesen, J.E., Wang, M., Öztürk, I., Chen, F., 2016. Climate effects on crop
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- yield in the Northeast Farming Region of China during 1961 to 2010. The Journal of Agricultural Science 154, 1190-1208. (My contribution to the study is near 90%) (peer-reviewed journal)
6. Zhang, H., Zhao, X., **Yin, X.**, Liu, S., Xue, J., Wang, M., Pu, C., Lal, R., Chen, F., 2015. Challenges and adaptations of farming to climate change in the North China Plain. Climatic Change 129, 213-224. (My contribution to the study is near 15%) (peer-reviewed journal)
7. **Yin, X.**, Wang, M., Kong, Q., Wang, Z., Zhang, H., Chu, Q., Wen, X., Chen, F., 2015. Impacts of high temperature on maize production and adaptation measures in Northeast China. Chinese Journal of Applied Ecology 26 (1), 186-198. (My contribution to the study is near 95%) (peer-reviewed journal in Chinese)
8. **Yin, X.**, Liu, W., Zheng, H., Zhang, H., Chu, Q., Wen, X., Yin, P., Chen, F., 2012. Adaptation of soil tillage practice to climate change in central Songliao Plain. Transactions of the CSAE 28(22), 123-13. (Engineering Index) (My contribution to the study is near 85%) (peer-reviewed journal in Chinese)
9. Cui, S., **Yin, X.**, Chen, F., Tang, H., Li, F., Zhang, H., 2011. Effects of tillage and straw returning on nitrogen leakage in double rice cropping field. Transactions of the CSAE 27(10), 174—179. (Engineering Index) (My contribution to the study is near 20%) (peer-reviewed journal in Chinese)
10. **Yin, X.**, Jabloun, M., Olesen, J.E., Öztürk, I., Chen, F., 2015. Effects of climatic factors, drought risk and irrigation requirement on maize yield in the northeast farming region of China over 1961 to 2010. (Abstract and oral presentation for MACSUR Conference in Reading, April, 2015) (My contribution to the study is near 90%)
11. **Yin, X.**, Kersebaum, K.C., Kollas, C., Armas-Herrera, C.M., Sanmohan, B., Beaudoin, N., Bindi, M., Charfeddine, M., Conradt, T., Cortazar-Atauri, I.G.d., Ewert, F., Ferrise, R., Hlavinka, P., Hoffmann, H., Lana, M., Launay, M., Manderscheid, R., Manevski, K., Mary, B., Mirschel, W., Moriondo, M., Müller, C., Nendel, C., Öztürk, I., Palosuo, T., Ripoche-Wachter, D., Rötter, R.P., Ruget, F., Sharif, B., Trnka, M., Ventrella, D., Weigel, H.-J., Wu, L., Olesen, J.E., 2016. Uncertainty in simulating N uptake and N use efficiency in the crop rotation systems across Europe. Crop Modelling for Agriculture and Food Security: Book of Abstracts. p. 177-178. (My contribution to the paper is near 80%)
12. Olesen, J.E., Sharif, B., Plauborg, F., **Yin, X.**, Bindi, M., Doro, L., Ewert, F., Roberto, F., Gaiser, T., Giglio, L., Hoffmann, H., Hoffmann, M.P., Kersebaum, K.C., Iocola, I., Moriondo, M., Mula, L., Roggero, P.P., Ventrella, D., 2016. Comparison of wheat models and their sensitivity towards tillage and N fertilization with different calibration approaches. Crop Modelling for Agriculture and Food Security: Book of Abstracts. p. 115-116.
13. Lana, M., Kersebaum, K.C., Kollas, C., **Yin, X.**, Nendel, C., Manevski, K., Müller, C., Palosuo, T., Armas-Herrera, C.M., Beaudoin, N., Bindi, M., Charfeddine, M., Conradt, T., Constantin, J., Eitzinger, J., Ewert, F., Ferrise, R., Gaiser, T., Cortazar-Atauri, I.G.d., Giglio, L., Hlavinka, P., Hoffmann, H., Hoffmann, M.P., Launay, M., Manderscheid, R., Mary, B., Mirschel, W., Moriondo, M., Olesen, J.E., Öztürk, I., Pacholski, A., Ripoche-Wachter, D., Roggero, P.P., Roncossek, S., Rötter, R.P., Ruget, F., Sharif, B., Trnka, M., Ventrella, D., Waha, K., Wegehenkel, M., Weigel, H.-J., Wu, L., 2016. Effect of different levels of calibration in rotation schemes simulated in five European sites in a multi-model approach. Crop Modelling for Agriculture and Food Security: Book of Abstracts. p. 298-299.

Submitted publications:

	<ol style="list-style-type: none"> Yin. X., Kersebaum, K.C., Kollas, C., Manevski, K., Sanmohan, B., Beaudoin, N., Öztürk, I., Gaiser, T., Wu, L., Hoffmann, M.P., Armas-Herrera, C.M., Charfeddine, M., Conradt, T., Constantin, J., Ewert, F., Cortazar-Atauri, I.G.d., Giglio, L., Hlavinka, P., Launay, M., Louarn, G., Manderscheid, R., Mary, B., Mirschel, W., Nendel, C., Pacholski, A., Palosuo, T., Ripoche-Wachter, D., Rötter, R.P., Ruget, F., Sharif, B., Trnka, M., Ventrella, D., Weigel, H.-J., Olesen, J.E., 2016. Performance of process-based models for simulation of grain N in crop rotations across Europe. <i>Agricultural Systems</i>. (Under review, AGSY_2016_487) (My contribution to the paper is near 85%) (peer-reviewed journals) Yin. X., Kersebaum, K.C., Olesen, J.E., et al. Multi-model uncertainty analysis in predicting soil mineral N for crop rotations in Europe. (Been finalized and to be submitted to <i>Environmental modelling & software</i> in December 2016). (My contribution to the paper is near 85%)
Presentations as invited speaker	<ol style="list-style-type: none"> Effects of climatic factors, drought risk and irrigation requirement on maize yield in the Northeast Farming Region of China over 1961 to 2010. (Oral presentation for MACSUR Conference in Reading, April 2015) Uncertainty in simulating N uptake and N use efficiency in the crop rotation systems across Europe. (Oral presentation for Crop Modelling for Agriculture and Food Security under Global Change in Berlin (iCROP), March 2016)
Graduate teaching as lecturer or training coordinator	<ol style="list-style-type: none"> Farming systems (for the Bachelor student in China Agricultural University) Agroecology (for the Master student in China Agricultural University)
Awards and prizes, if any	<ol style="list-style-type: none"> Scientific Achievement Scholarship awarded by China Agricultural University, November 2013; Scientific Achievement Scholarship awarded by China Agricultural University, November 2011; Outstanding Graduates of Nanjing Agricultural University, December 2010; Triple-A Student Award of Nanjing Agricultural University, November 2009; Triple-A Student Award of Nanjing Agricultural University, November 2008; The scholarship for academic records awarded by Nanjing Agricultural University, November 2008 and November 2009; Excellent Social Activity Member of Nanjing Agricultural University, October 2008.

Collaboration and Networking

Participation in collaborative projects funded by competitive programmes	<ol style="list-style-type: none"> Modern farming system mode and supporting technology research and demonstration (Special Fund for Agro-scientific Research in the Public Interest: Grant No. 201103001) (as an academic backbone and a secretary for the project) Impacts of climate change on cropping system, crop distribution and its adaptation mechanism (National Basic Research Program of China: Grant No. 2010CB951502) Impacts of climate change on agricultural managements and adaptation strategies (Special Fund for Agro-scientific Research in the Public Interest: Grant No. 2009003) Modelling European agriculture with climate change for food security MACSUR (EU JPI-FACCE Programme)
Graduate teaching as lecturer or training coordinator; PhD supervision	I have been helping my supervisor in CAU to supervise three PhD candidates in designing experiments, farmer questionnaires and expert questionnaires, and analysing datasets, designing and writing scientific articles.

Research management, Technology transfer, and Communication

<p>Team management</p>	<p>During 2010 and 2015, I had been as a secretary to help my PhD supervisor (Fu Chen) to manage the everyday life activities in our lab (Key Laboratory of Farming system, Ministry of Agriculture of China, Beijing, 100193, China), and as a coordinator to organize eight academic conferences for the farming system research in China (40-100 attendants in each conference). Fu Chen is a leading scientist in farming systems in China, and he is also the chief scientist for several national projects. Thus I also helped him to connect with the project partners across China for both everyday activity and research contents. My experiences in team management and communication skills have been significantly improved during this period. Besides, I worked as a coordinator in crop rotations simulation activity in MACSUR with 15 models team across Europe. Both of these experiences are helpful for my future work.</p>
<p>Other experience and skills relevant to the application</p>	<p>I have been cooperated with the STICS team in MACSUR project for more than one and a half years, and also in good relationship with the teammates in STICS Project Team. Besides, I have spent more than two months to learn and use STICS in simulating N dynamics, carbon and water cycle in crop rotations, thus I can use the STICS model very flexibly. This should be helpful for my future work in the STICS Project Team. Moreover, I have worked on the crop rotations in Europe for more than one and half years, my experience in this area should be useful to initiate the following project. In addition, my research experience in climate change risk assessment and adaptation strategies in the cropping systems should be beneficial for understanding the importance of SOC storage simulation in cropping systems.</p> <p>Generally, I am skilled in R software, and I have used R to manipulate the big data sets in both the postdoctoral project and the PhD project. Moreover, I am good at agricultural statistics. Both of these could be useful in the future research activity. Moreover, the scientific publication experiences will also be helpful for finishing the following project.</p>

Scientific References

Full name	Fu Chen
Position	Director of the Key Laboratory of Farming System, MOA (Professor)
Institution	College of agronomy and Biotechnology, China Agricultural University
Email address	chenfu@cau.edu.cn

Full name	Jørgen Eivind Olesen
Position	Section manager (Professor)
Institution	Department of agroecology, Aarhus University
Email address	jeo@agro.au.dk

Full name	Kurt-Christian Kersebaum
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Position	Senior Scientist
Institution	Institute of Landscape Systems Analysis, Leibniz Centre for Agricultural Landscape Research (ZALF)
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