CURRICULUM VITAE

January 21, 2015

I. PERSONAL INFORMATION

Name:Fugen Dou

Rank:Assistant Professor

Address: Texas A&M AgriLife Research Center

 1509 Aggie Drive Beaumont, TX, U.S.A.

Department:Soil and Crop Sciences

Date of appointment:May 1, 2009

Email:f-dou@aesrg.tamu.edu

Tel:(409) 752-2741

II. EDUCATION

2000 - 2005 Doctor of Philosophy (Soil Science), Texas A&M University

1996 - 2000 Master of Science (Plant Nutrition and Soil Science), Chinese

 Academy of Agricultural Sciences, Beijing, China

1989 - 1993 Bachelor of Science (Soil Science and Agricultural Chemistry),

 Zhejiang University (Formal Zhejiang Agricultural University), Hangzhou, China

III. EXPERIENCE

2009 - Present Assistant Professor, Texas A&M AgriLife Research and Department

of Soil and Crop Sciences, Texas A&M University

2007 - 2009 Postdoctoral Research Associate, Department of Plant Sciences,

 University of California, Davis

2005 - 2007 Postdoctoral Research Associate, International Arctic Research

 Center, University of Alaska at Fairbanks

2000 - 2005 Graduate Research/Teaching Assistant, Department of Soil and

 Crop Sciences, Texas A&M University

1993 - 2000 Research Assistant, Instituteof Soil and Fertilizer, Chinese

 Academy of Agricultural Sciences, Beijing, China

Curriculum Vitae - Fugen Dou

2

Position Description

Percent Appointment: 100% Research

 Provide expertise in the plant-soil-environment interface as part of a team of

scientists whose focus is the study of plant response to abiotic and biotic stresses,

and physiology of yield and quality with an emphasis on rice. Significant aspects

of the research are expected to focus on nutrient transport, as affected by edaphic,

climatic, biotic and physiological variables that impact the plant/soil continuum,

and the response of rice and other crops to nutrient availability

 Contribute to development of quantitative/physicochemical models and

management decision aids to address nutrient management and the movement of

nutrients within soil, to and in the plant, and in ground and surface water. The

successful candidate will contribute to the development and application of a

mechanistic understanding of the complexity inherent in plant and cropping

systems and in predicting genotype yield performance as impacted by abiotic and

biotic stresses

 Develop fertility recommendations for commercial cultivars and elite lines of

rice. The incumbent will be expected todevelop field experiments across the

Texas rice belt, to partner with plant nutrition experts in other rice producing

states, and to effectively communicate with the state’s rice producers.

Opportunity also exists for research on bioenergy and other crops,

phytoremediation, and organic production

IV. RESEARCH

Percent budgeted time = 100%

Dr. Dou’s research focuses on the development of sustainable crop (mainly rice)

production while mitigating adverse environmental impacts through combined

techniques of field and greenhouse trials, laboratory analyses, modeling, and metadata analysis. Specifically, his research contributes to: 1) improving and applying

process-based models; 2) determining the effects of rice and biomass sorghum

production on greenhouse gas emissions and soil and water quality; 3) improving

nutrient recommendations for the production ofrice and other crops; and 4) providing

critical information to assist rice producers in variety selection.

A. Active Research Projects (cooperators included)

Improvement of Nutrient Management and Variety Evaluation for Texas Rice

Producers

Determine the effects of variety, nitrogen rate and timing, planting date, and soil on

rice production, grain yield, milling quality, and water quality on clay and loamy

soils.L. Tarpley and G. McCauley. 2009-2014. Dr. Dou supervises a research

associate and a technician who are working on determining the effects of biotic and

abiotic stresses on rice production. The results from this multiple-year project indicate

that: 1) rice variety has a significant effect on rice crop production, grain yield

potential and milling quality; 2) different rice varieties have different requirements

Curriculum Vitae - Fugen Dou

3

for fertilizer N to approach the yield potential; 3) compared to clay soil, loamy soil

supplies greater soil N to the rice crop; 4) hybrids have greater nitrogen use efficiency

(NUE) than inbreds and thus require less fertilizer N to approach yield potential; 5)

splitting nitrogen application does not improveNUE if a timely flood is applied; and

6) earlier planting generally benefits ratoon rice production and greater total (main

and ratoon) yields. The results have beenreported to the Texas Rice Research

Foundation, published in the Texas Rice Production Guidelines, and presented to rice

producers, county agents, rice industry consultants and other stakeholders.

Improving soil quality to increase yield and reduce diseases in organic rice

production. A. McClung, S. Zhou, D. Anderson, S. Kresovich, and M. Shepard.

2012-present. Dr. Dou is supervising a research associate and a technician working on

the combined effects of cover crop, soil amendment, and variety selection on organic

rice yield, milling quality, and disease severity. Also, a graduate student will be cosupervised by Drs. Gentry and Dou to work on the effect of organic rice production

on the soil microbial community structure which regulates greenhouse gas emissions.

Development and Application of Process-based Models to Simulate the Effects of

Abiotic and Biotic Factors on Crop Production, Carbon Sequestration,

Greenhouse Gas Emissions (GHG), and Life Cycle Analysis

Impact of biomass sorghum feedstock production on carbon sequestration and

greenhouse gas emissions in the southcentral region. F. Hons, J. Wight, J. M. Mjelde,

and G. O. Osuji. 2011-present. Drs. Dou and Hons are co-supervising a Ph.D. student,

Yong Wang, who is simulating the effects of cropping system, residue return, N

fertilization, tillage, and soil type on biomass sorghum production, soil organic C

sequestration, and GHG emissions using a process-based biogeochemical model,

DayCent. His results indicate that 1) the DayCent model can reasonably simulate the

impact of management practices on biomass sorghum production and 2) residue

return and nitrogen fertilization have significant impacts on soil C sequestration and

GHG emissions.

Development of a soil organic C and N module which will improve the capability and

performance of an existing, process-based crop model, RicePSM. L. T. Wilson Y.

Yang, J. Wang. 2009-present. Dr. Dou has been working on the development of a

conceptual soil organic C and N module and parameterizing the functions which can

effectively describe the turnover of soil organic C and N including mineralization,

nitrification, denitrification, methane production and consumption, ammonia

volatilization, nitrous oxide flux, and nitrogen transport across soil layers. In addition,

the results from the field trials on rice and biomass sorghum production will be used

to calibrate the developed soil organic C and N module.

Improving soil quality, carbon sequestration, and mitigating greenhouse gas

emissions in organic rice production. F. Hons, J. Wight, and A. Torbert. 2012-present. Drs. Hons and Dou are co-supervising a postdoctoral associate, Dr. Joseph.

Storlien, who is working on the effects ofcover crop, variety, and soil amendment on

soil organic C sequestration and GHG emissions. He is also determining the effects of

organic vs. conventional rice production on GHG emissions. His results indicate that

Curriculum Vitae - Fugen Dou

4

soil amendment type and application rate and rice variety significantly affect GHG

emissions. A portion of his results have been reported to the advisory board of this

project as well as at a biennial international rice researchmeeting, the Rice Technical

Working Group. Additionally, emissions due to different treatments will be used to

conduct a life cycle assessment of the different cropping systems.

B. Sources of Research Funding and Support

 Texas Rice Research Foundation (5)

 Texas A&M AgriLife Research Bioenergy Initiatives Program (1)

 Texas A&M AgriLife Research Ukulima Program (1)

 USDA-NIFA-ARFI Bioenergy Initiatives Program (1)

 USDA-NIFA-AFRI Organic Research and Education Initiatives Program (1)

 USDA Southern SARE Researchand Education Program (1)

 USDA Southern SARE Young Scholars Enhancement Grant Program (2)

 USDA-ARS Organic Rice Research Program (1)

 TeraGanix Ag1000 Company (1)

 Grower's Secret Company (1)

V. TEACHING

Percentage budgeted time = 0%

A. Undergraduate students

Justin Floyd, a student at Lamar University, worked on conventional rice production

in my program during Summer 2012, which was beneficial for him in gaining

experience in rice production.

Garrett Floyd, a student atHarding High School, conducted his internship on the

effects of organic rice production on water quality as well as to learn organic rice

production, which was supported by the USDA SARE Young Scholar Enhancement

Grant. He finished his internship at the Texas A&M AgriLife Research Center at

Beaumont in Summer 2013. His research led to a poster presented at the office of

USDA Southern SARE.

Chris Dermody, an agronomy major at Texas A&M University, worked on GHG

sampling during organic rice production in Summer 2013. He learned how to collect

gas samples in flooded fields and gainedrelevant knowledge of organic rice

production.

Curriculum Vitae - Fugen Dou

5

B. Graduate Students

Yong Wang began work towards a Ph.D. inSoil Science in August 2012. Drs. Dou

and Hons are co-supervising Yong, who is simulating the effects of biomass sorghum

production on soil organic C and GHG emissions. In June 2014, Yong visited the

Natural Resource Ecology Laboratory at Colorado State University and the USDA

ARS DayCent Modeling Laboratory in Ft. Collins, CO to gain additional modeling

experience. This trip was partially supported by the SmithTravel grant. Yong is

making progress with his research and is anticipated to graduate in 2016.

A M.S. graduate student, Mariana Valdez Velarca, will join the group in Fall 2014.

She was jointly nominated by Drs. Gentry and Dou and has been selected to receive

an Excellence Fellowship. Mariana will work on the organic rice project this fall,

specifically using tools, including soil microbial communitystructure, to determine

the effects of management practices on methane production and consumption.

C. Postdoctoral Research Associates

Dr. Kirill Kostyanovskiywas supervised by Dr. Dou to work on the effect of rice

production on water quality and soil dissolvedorganic C and N and inorganic N. The

results of his research indicated thatwater pH and EC changed during rice

production. Soil dissolved organic C and N wereaffected by rice variety, with highest

values observed during reproductive stages. These results were presented at the 2011

ASA-SSSA-CSA annual conference in San Antonio, TX.

Dr. Guangjie Liu, co-supervised by Drs. Zhou and Dou, is determining the effects of

variety, N fertilization, and planting date on conventional rice production, grain yield,

milling quality, and NUE. Part of his research was presented at both Eagle Lake and

Beaumont Field Days and at the 2014 Rice Technical Working Group meeting in

New Orleans.

Dr. Joseph Storlien is working on the effects of cover crop, soil amendment, and

variety on GHG emissions in organic rice production. His results indicate that soil

amendment type and application rate and rice variety significantly affect GHG

emissions. A portion of his results have been reported to the advisory board of this

project as well as at a biennial international rice researchmeeting, the Rice Technical

Working Group. Additionally, emissions due to different treatments will be used to

conduct a life cycle assessment of the different cropping systems.

Visiting Scholars

Dr. Junel Soriano, an Associate Professor and Vice President of Research, Education

and Service of the Bulacan Agricultural State College in the Philippines, cosupervised by Drs. Dou and Tabien, was supported by the Fulbright Visiting

Scholar Programand completed his research at the Beaumont Center. His research

has contributed to three research posters and two manuscripts are in preparation for

publication.

Curriculum Vitae - Fugen Dou

6

Dr. Youzhong Lang is an Associate Professor at Yangzhou University in China. Drs.

Tarpley and Dou co-supervised Youzhong who worked on the effects of cover crop

and soil amendment on organic rice production, N uptake, and yield components, as

well as on leaf traits for adaptation to future climates. His research was presented at

the 2014 Rice Technical Working Group in New Orleans. A manuscript from this

work is currently in preparation.

Dr. Ganghua Li is an Associate Professor and Deputy Department Head of

Agriculture at Nanjing Agricultural University in China. Ganghua, co-supervised by

Drs. Tarpley and Dou, is working on the effects of organic rice on GHG emissions,

elevated temperature on rice physiology and productivity, and methods to prevent

tillering shock. His research was presented at the 2014 Rice Technical Working

Group in New Orleans. A manuscript on the GHG emission portion of his work is in

preparation.

Dr. Shu Wang is supported by the China Scholarship Counciland is a Professor at

Shenyang Agricultural University and a Visiting Scholar at the Texas A&M AgriLife

Research Center at Beaumont. Dr. Dou issupervising Dr. Wang, who is working on

seeding rate, seeding method, and variety effects on organic rice production. Dr.

Wang is also working on the effect of conventional and organic rice production on

GHG emissions.

VI. SERVICE and OUTREACH

Dr. Dou has provided service to Texas A&M AgriLife Research at local, state, and

national levels. He has served on multiple Center committees, is a member of several

professional organizations, and has chaired committees and panels at international

scientific meetings, including the Soil Science Society of America. He has reviewed

numerous manuscripts for a variety of journals along with seventeen (17) research

proposals for USDA SARE.

A. Center Committee Assignments

 Chair of the Beaumont Center Field Day Morning Program Set-up

Committee, 2010-present

 Chair of the Beaumont CenterSafety Award Committee, 2010-2012

 Member of Field Day Theme Committee, 2014-present

B. State Service

 Presentation on rice variety and nutrient management to Texas Rice Research

Foundation, February 2010

 Technology-transfer presentation on variety evaluation and nutrient

management at the 63th annual field day at the Texas A&M AgriLife

Research & Extension Center at Beaumont on July 8th, 2010.

 Presentation on rice variety and nutrient management to Texas Rice Research

Foundation, February 2011

Curriculum Vitae - Fugen Dou

7

 Technology-transfer presentation on variety evaluation and nutrient

management at the 64th annual field day at the Texas A&M AgriLife

Research & Extension Center at Beaumont on July 14th, 2011.

 Extension presentation on variety evaluation and nutrient management to

Texas Rice Industry Advisory Committee at the US Rice Producer's

Association headquarters in Houston on November 30th, 2011.

 Presentation on rice variety and nutrient management to Texas Rice Research

Foundation, February 2012

 Technology-transfer presentation on variety evaluation and nutrient

management at the 65th annual field day at the Texas A&M AgriLife

Research & Extension Center at Beaumont on July 12th, 2012.

 Extension presentation on variety evaluation and nutrient management to

Texas Rice Industry Advisory Committee at the US Rice Producer's

Association headquarters in Houston on November 28th, 2012.

 Presentation on rice variety and nutrient management to Texas Rice Research

Foundation, February 2013

 Technology-transfer presentation on organic rice production at the 65th

annual field day at the Texas A&M AgriLife Research & Extension Center at

Beaumont on July 11th, 2013.

 Technology-transfer presentation on variety evaluation and nutrient

management at the 65th annual field day at the on July 11th, 2013.

 Presented seminar on nitrogen managementto County Extension Agents at the

Texas A&M AgriLife Research & Extension Center at Beaumont, 2013

 Presentation on rice variety and nutrient management to Texas Rice Research

Foundation, February 2014

 Presentation on impacts of winter cover crop and soil amendment on organic

rice production to the Department of Soil and Crop Sciences, Texas A&M

University, February 2014

 Technology-transfer presentation on rice variety evaluation and nutrient

management at the 40th annual field day at the Texas A&M AgriLife

Research Station at Eagle Lake, June 2014.

 Organize 2014 Texas Soil Critique Meeting at Texas A&M AgriLife Research

Center at Beaumont, TX, July 2014.

 Technology-transfer presentation on bestrice nitrogen management at the

67th annual field day at the Texas A&M AgriLife Research Center at

Beaumont, July 2014.

C. National Service

 Member of the Nominations Committee for Rice Technical Working Group,

2010-2012

Curriculum Vitae - Fugen Dou

8

 Chair of the Nominations Committeefor Rice Technical Working Group,

2012-2014

 Organized the first organic rice workshop at the office of the US Rice

Producers Association in Houston, TX, March 2013.

 Chair of the Culture Panelfor Rice Technical Working Group, 2014-2016

 Organized organic rice workshop at the Texas A&M AgriLife Research

Center at Beaumont, TX, July 2014.

D. Articles Reviewed for Journals

 Soil Science Society of America Journal

 Agronomy Journal

 Global Change Biology

 Soil Tillage Research

 Geoderma

 Soil Science

 Australian Journal of Soil Research

 Pedosphere

 Journal of Environmental Quality

 Soil and Plant Nutrition

 Journal of Soil and Sediments

 Agriculture, Ecosystems & Environment

E. Proposals Reviewed for Granting Organizations (17)

 2013 (10 total): USDA Southern SARE On-Farm Research Program

 2014 (7 total): USDA Southern SAREGraduate Research Program

F. Professional and Scientific Activities

 American Society of Agronomy, member since 2002

 Soil Science Society of America, member since 2002

 Rice Technical Working Group, member since 2010

 Biological Systems Simulation Group, member since 2011

 American Geophysical Union, member 2005-2007

 International Permafrost Association, member 2005-2007

 Arctic AAAS, member 2005-2007

Curriculum Vitae - Fugen Dou

9

VII. MAJOR ACCOMPLISHMENTS

Summary table of grants and contracts

Type and Role

Since Last Promotion

Total dollars to all PIs

Dollars allocated

to your program

External Competitive

PI 964,442 568,796

Co-PI 1,058,267 212,261

Total (PI + Co-PI) 2,022,709 781,057

Internal Competitive

PI 249,900 181,900

Co-PI 300,000 20,000

Total (PI + Co-PI) 549,900 201,900

TOTAL 2,572,609 982,957

Summary table of publications and output

Type Since Last Promotion Career

Journal Articles

(Refereed/Peer-Reviewed)

719

Scientific Abstracts 28 47

Editor Reviewed

Publications

46 46

Popular Articles/Reports 24 24

TOTAL 105 136

Contribution and significance of grants

I have been principal investigator (PI) or co-investigator (Co-PI) on fifteen (15)

funded research grants since starting my current position. As the PI of four (4)

federal competitive research grants (USDA-NIFA, USDA-SARE Education and

Research, USDA-SARE Young Scholars Enhancement Grants) on organic rice, I am

leading research which will contribute to: 1) the development of nutrient

management guidelines for organic rice production, 2) an assessment of the effects

of organic rice production on soil C sequestration, 3) a determination of the

economical feasibility of organic rice production using cover crops and soil

amendments, 4) an assessment of the effects of cover crop and soil amendment on

GHG emissions, 5) a life cycle assessmentto identify sustainable management

practices for organic rice in terms of grain yield, soil quality, C sequestration, and

GHG emissions, and 6) the education for tomorrow's leaders in sustainable

agriculture.

In the other research project supported by USDA-NIFA,my major role includes

assessing biomass sorghum production effects on soil C sequestration and GHG

emissions using the process-based model,DayCent. Anticipated outputs from these

Curriculum Vitae - Fugen Dou

10

research activities include delimiting bestmanagement practices for sustainable

biomass sorghum production in terms of both yield and ecological service. Such

information is also critical for policy makersfor decisions associated with bioenergy

development.

I also have provided leadership for the successful implementation of four (4) projects

supported by the Texas rice industry. The results from these projects have

contributed to updates of popular variety evaluations and nutrient recommendations

for new varieties, which have been used to develop new Texas Rice Production

Guidelines for rice producers. My research project has also intensively evaluated

responses of major rice varieties planted in Texas to different planting dates and

other cultural practices. Asa result, rice producers can make better choices in

selection of planting windows and adjustment of crop management in response to

planting date and ratooning, which is animportant practice for increasing net

income.

In summary, the receipt of research funding from federal, state, and industry sources

enhances my capability in conducting scientific research that is important for

generating new knowledge for both the scientific community and producers. These

grants also provide support to undergraduate students, graduate students and

postdoctoral research associates, who are ourscientists of the future. Results from

these funded projects will benefit stakeholders including rice producers and the

biomass sorghum industry.

Contribution and significance ofpeer-reviewed publications

My research activities have produced nineteen (19) refereedarticles including one in

press, of which seven (7) have been published or are in press since I started in my

current position.

My recently published seven papers are focused on soil organic C and N. Soil

organic C and N are highly linked because more than 98% of soil total N occurs in

organic form. Thus, the content, lability, and mineralization of soil organic C will

affect soil organic N and N availability to crops.

However, the importance and complex transformations of soil inorganic N associated

with nutrient management necessitate moreinvolved studies than only soil organic

C. For example, one of these papers explored the effect of soil clay content on

ammonium diffusion. Ammonium is the primary inorganic form of N that is

available to flooded rice. Thus, the amount of soil ammonium and its diffusion rate

determine the supply of soil N to rice. Both rice producers and researchers have

reported that rice grown on light-textured soils has greater yield potential than when

produced on clay soils. Our study quantified the effect of clay content on soil

ammonium diffusion by incorporating a laboratory incubation experiment. Our

research showed that deeply incorporatedN fertilizer may notcontribute to rice

production on clay soils in the current season due to low diffusion rate, although

incorporation has been recommended for decreasing ammonia volatilization loss.

Curriculum Vitae - Fugen Dou

11

To better quantify the effects of management practices and environmental conditions

on soil structure and organic C and N turnovers, Dr. Dou and his colleagues have

developed a process-based soil model which simulates the turnover of soil

aggregates and associated organic C and N. The results from this research were

published in the journal, Ecological Modeling,in 2013. Dr. Dou mainly contributed

to the model development, sensitivity analysis and optimization using Bayesian

methods.

VIII. GRANTS AND CONTRACTS AWARDED (15)

Federal Competitive Research Grants (5):

1. Hons, F.M. (PI), J. Wight, J. Mjelde, F. Dou, and G. Osuji. 2010.Impact of biomass

sorghum feedstock production on carbon sequestration and greenhouse gas emissions

in the southcentral region.USDA-NIFA-AFRI. 2012-2016. $997,100. Dou portion is

$183,344.

2. Dou, F. (PI), A. M. McClung, X.G. Zhou, D. Anderson, S. Kresovich, and B. M.

Shepard. 2012. Improving soil quality toincrease yield and reduce diseases in organic

rice production. USDA-SARE. 2012-2015. $225,000. Dou portion is $125,800.

3. Dou, F. (PI), F. Hons, J. Wight, and A. Torbert. 2012. Improving soil quality, C

sequestration, and mitigating greenhouse gas emission in organic rice production.

USDA-NIFA-OREI. 2012-2015. $726,892. Dou portion is $430,446.

4. Dou, F. (PI). 2013. Enhance sustainable agriculture experience for young scholars

through summer internship program. USDA-SARE. $4,222. Dou portion is $4,222.

5. Dou, F. (PI). 2014. Enhance sustainable agriculture experience for young scholars

through summer internship program. USDA-SARE. $4,328. Dou portion is $4,328.

Federal Non-Competitive Research Grants (1):

6. Zhou, X. G. (PI) andF. Dou. 2012. Disease and nutrient management research in

organic rice. USDA-ARS Dale Bumpers National Rice Research Center.2012.

$51,167. Dou portion is $25,584.

Texas Rice Industry Support (5):

7. Dou, F.(PI) and L. Tarpley. 2010. Rice varietal evaluation, nutrient management

improvement, and planting date study for Texas production practices. Texas Rice

Research Foundation. 2010-2012. $49,000. Dou portion is $49,000.

8. Dou, F.(PI) and L. Tarpley. 2011. Rice varietal evaluation, nutrient management

improvement, and planting date study for Texas production practices. Texas Rice

Research Foundation. 2011-2013. $49,900. Dou portion is $49,900.

9. Dou, F. (PI), McCauley, G. N., and L. Tarpley. 2012. Ricevarietal evaluation,

nutrient management, and evaluating performance potential for hybrids and select

inbred varieties. Texas RiceResearch Foundation. 2012-2014. $51,000. Dou portion is

$33,000.

Curriculum Vitae - Fugen Dou

12

10. Dou, F. (PI),G. N. McCauley, and L. Tarpley. 2013. Rice varietal evaluation and

nutrient management improvement for Texas production practices. Texas Rice

Research Foundation. 2013-2015. $20,000. Dou portion is $20,000.

11. Dou, F. (PI) and G. N. McCauley. 2014. Rice varietal evaluation and nutrient

management improvement for Texas production practices. Texas Rice Research

Foundation. 2014-2016. $20,000. Dou portion is $20,000.

Texas A&M AgriLife Research Competitive Research Grants (2):

12. Smith, G. (PI), J. Muir, D. Malinowski, J. Foster, M. Rouquette, F. Dou, and L.

Tarpley. 2009. Sustainable production ofcellulosic biomass with attention to natural

resource conservation and wildlife stewardship. Texas AgriLife Bioenergy Initiatives

Program. 2009-2010. $300,000. Dou portion is $20,000.

13. Tabien, D. (PI), F. Dou, and X.G. Zhou. 2012. Development of profitable and

sustainable rice production system for South Africa and major rice growing areas of

Africa. Texas AgriLife Research, Ukulima program. 2012-2013. $60,000. Dou portion

is $10,000.

Industry or Commodity Support (2):

14. Dou, F. (PI).2014. Grower Secret Nitrogen for organic rice production. Growers

Secret, Inc. 2014. $4,000. Dou portion is $4,000.

15. Tarpley, L. (PI), F. Dou, and X. Zhou. 2014. TeraGanix Ag1000 for U.S. Rice

Production. TeraGanix, Inc. 2014. $10,000. Dou portion is $3,333.

Pending Grants (2):

16. Dou, F.(PI), R. Mulvaney, C. Li, and X. Yu. 2014. Improving nitrogen use efficiency

in rice production by site-specific N management and the use of a urease inhibitor.

USDA-NIFA-AFRI A1401. 2015-2018. $499,192. Pending.

17. Tabien, D. (PI), F. Dou, H. Utomo, J. Soriano, and J.Valdez. 2014. Discovery and

transfer of genes for abioticstresses in rice: herbicide and drought tolerance. USDANIFA-AFRI A1141. 2014-2017. $499,920. Pending.

Non-funded Grants (26):

1. Abeygunawardena, P. (PI), W. Payne (PI), T. B. Jamal, F. Dou, and D. Rowland.

2009. Conservation agriculture to sustainably increase smallholder food security

in marginal rain-fed rice systems ofCambodia and Lao PDR. US-AID SANRM

(Sustainable Agriculture and Natural Resource Management) Collaborative

Research Support Program. 2010-2015. $1,256,852.

Curriculum Vitae - Fugen Dou

13

2. Dou, F. 2009. Increasing predictability of nutrient release from organic matter:

The interaction of organic resource and soil aggregate turnover controls N

cycling. USDA-SARE. 2010-2012. $20,436.

3. Samonte, S.O.B.P., Y. Yang, L. T. Wilson, F. Dou, and P. Sta Cruz. 2009.

Development of rapid selection methodology for high yielding and nutrient

efficient rice cultivars. NSF-BREAD (Basic Research to Enable Agricultural

Development). 2010-2013. $870,323.

4. Tabien, R. E., W. D. Park, S.O.B.P. Samonte, L. Tarpley, D. Vietor, S. Capareda,

F. Dou, R. Jessup, and G. Eizenga. 2009. Development of switchgrass and rice

cultivars for bioenergy feedstock. Texas AgriLife Bioenergy Initiative. 2009-2011. $196,110.

5. Wilson, L. T., Y. Yang, F. Dou, and P. W. Stackhouse Jr. 2009. Impact of

climate change on crop distribution and performance, carbon sequestration, and

greenhouse gas emissions in the U. S.Gulf Coast. NASA-ROSE (Research

Opportunities in Space and Earth Sciences). 2010-2012. $399,267.

6. Dou, F., Y. Yang, L. T. Wilson, F. Hons, J. Wight, and D. Tyler. 2010. The

potential impact of cellulosic bioenergy development on carbon sequestration

and greenhouse gas emissions in the Southern United States. NASA-ROSE

(Research Opportunities in Space and Earth Sciences). 2011-2013. $749,273.

7. Tabien, R., F. Dou, S.O.B.P. Samonte, L. Tarpley, L. T. Wilson, Y. Yang, J. L.

Heilman, K. McInnes, B. A. Kimball, J., W. White, J. T. Baker, and H. S.

Utomo. 2010. Integrated screening and phenotyping for rapid selection of

superior performing rice genotypes adapted to climate changes (A3141). USDANIFA-AFRI. 2011-2015. $4,966,065.

8. Wilson, L. T., Y. Yang, J. Lv, F. Dou, X. G. Zhou, J. Campiche, F. Epplin, R. S.

Frazier, R. Holcomb, P. Kenkel, D. Shideler, L. Ribera, J. Outlaw, Y. Yanigida,

and J. Heissenbuttel. 2010. Develop and validate regional-specific sustainable

production models of bioenergy crops.For the Texas A&M Agroecosystems

Team's portion of the CAP proposal entitled “Sustainable Production of

Lignocellulosic Bioenergy inthe South-Central Region of the United States” led

by Avant, R. V., Huhnke, R. L., with over 50 additional scientists. USDA-NIFAAFRI South Central Regional Bioenergy Coordinated Agricultural Project

(CAP). 2011-2015. $4,249,989.

9. Zhou, X.G., T. Isakeit, M. J. Brewer, F. Dou, and L. Tarpley. 2010. Cover

cropping-based management of diseasesand other components for bioenergy

sorghum production. USDA-NIFA-AFRI. 2011-2015. $995,172.

10. Hons, F.M., J. Wight, T. Gentry, and F. Dou. 2011. Impacts of agricultural

intensification on soil microbial communities and carbon and nutrient cycling in

corn and biomass sorghum cropping systems. USDA-NIFA-AFRI. 2012-2014.

$500,000.

Curriculum Vitae - Fugen Dou

14

11. Perkins, J., C. Clark II, T. Abichou, and F. Dou. 2011. Improving the evaluation

and mitigation of GHG emissions for rice production inSouthern United States.

USDA-NIFA-CBG. 2011-2014. $500,000.

12. Smith, G. R., J. P. Muir, D. Malinowski, J. Foster, M. Rouquette, F. Dou, B.

Higginbotham, V. Corriher, and R. Jessup. 2011. Integration of sustainable

cellulosic biomass production into Texas crop and livestock systems with

attention to wildlife stewardship. Texas AgriLife Research Bioenergy Seed Grant

Program. 2011-2013. $100,000.

13. Wilson, L. T., M. Hotzapple, M. El-Halwagi, B. McCarl, R. Srinivasan, W.

Rooney, F. Dou, Y. Yang, B. Baldwin, S. Gajjela, J. Davis, and P. Steele. 2011.

Sustainable production system for cellulosic fuels and biobased products using

mixed alcohol and pyrolysis conversion methods. USDA-NIFA-BRDI. 2012-2016. $6,889,442.

14. Wilson, L. T., Y. Yang, F. Dou, B. Adam, and W. H. White. 2011. Optimizing

cellulosic biomass productivity for diverse climatic and soil environments in the

U. S. Gulf Coast. Sun Grant Initiative South Central Region. 2011-2014.

$374,515.

15. Zhou, X. G., M. O. Way,F. Dou, and L. Tarpley. 2011. Developing novel cover

cropping-based strategies for sustainable bioenergy sorghum production. Texas

AgriLife Research Bioenergy Initiative Program. 2011-2013. $190,000.

16. Zhou, X.G., A.M. McClung, P. Moore, F. Dou, and L. Nalley. 2012. Improving the

sustainability of organic rice production in the Southern USA. USDA-NIFA-OREI.

2012-2015. $1,353,567.

17. Dou, F.G. McCauley, L. Tarpley, S. Zhou, and L. T. Wilson. 2012. Improving

rice production through using Unity Fertilizer inTexas. Agrifols Fertilizer L.L.C.

2012-2014. $114,019.

18. Tabien, R. D., F. Dou, and X. G. Zhou. 2012. Development of profitable and

sustainable rice production system for South Africa and major rice growing areas

of Africa. Ukulima Farm Research Center, Norman Borlaug Institute for

International Agriculture, Texas AgriLife Research. 2013-2014. $193,040.

19. Tarpley, L. and F. Dou.2012. Decreasing arsenic levels in rice while

maintaining yields: water management, variety selection, and plant growth

regulator application at two Texas locations. Rice Foundation. $100,230.

20. Zhou, X. G., F. Dou, A. M. McClung, D. R. Gealy, P. Moore, and L. L. Nalley.

2012. Improving the sustainability of organic rice production in the Southern

USA. USDA/NIFA Organic Research and Education Initiative (OREI) Program.

2012-2015. $1,621,188.

Curriculum Vitae - Fugen Dou

15

21. Tarpley, L., A. Mohammed,F. Dou, R. Tabien, and X. Yu. 2013. Leaf

physiological traits and crop managementpractices providing adaptation to a

warmer climate: Rice as model. USDA NIFA Climate Change Program.

$921,000.

22. Dou, F. and L.T. Wilson. 2013. Evaluation of Kainite fertilizer for rice, soybean,

sugarcane and sorghum production. South Boulder Mines Ltd. $159,744.

23. Dou, F., and X.G. Zhou. 2013. Improving nutrient and weed management for

sustainable microalgae production on cropland. Sapphire Energy Inc. $352,397.

24. Zhou, S., andF. Dou. 2013. Management of algal diseases and weeds in rice paddy

fields. Sapphire Energy Inc. $357,499.

25. Dou, F., F. Hons, J. Wight, J. Storlien, and X. Yu. 2013. Impact of biomass feedstock

production on belowground carbon processes and carbon sequestration.

USDA/NOAA/DOE/USDS Joint C Cycling Program. 2014-2017. $999,858.

26. Tarpley, L. and F. Dou. 2014. Wild rice hydroponics sulfide toxicity testing.

ENVIRON International Corporation. $58,327.

IX. PUBLICATIONS AND PROFESSIONAL OUTPUT:

Peer Reviewed Publications (20):

1. Zhang, F., X. Cheng, and F. Dou. 1997. Effects of different calcium materials on

calcium absorption and decreasing blood pressure of SHR. Chinese Journal of

Veterinary Bioproducts and Pharmaceuticals 4:21-24.

2. Dou, F., Y. Zou, P. Shi, and F. Zhang. 1999. Development trend of blending

fertilizer process and new techniques of granulation. Soil and Fertilizers 2:3-5.

3. Zou, Y., F. Dou, and F. Zhang. 2000. New technique of crop residue

industrialization. Soil and Fertilizers 2:40.

4. Zhang, F., H. Zhou, F. Dou, and Y. Zou. 2000. Application of one tailed mineral

to producing calcium and magnesium fertilizer. Soil and Fertilizers 3:35-37.

5. Zhang, F., Q. Zhang, J. Wang, F. Dou, M. Liu, and W. Zou. 2004. Deodorization

techniques on fleeting continuous fermentation of organic feces with high

temperature. Agro-environment Science Journal 4:796-800.

6. Dou, F.and F.M. Hons. 2006. Tillage and nitrogen fertilization effects on soil

organic matter fractions in wheat-based systems. Soil Science Society of

America Journal 70:1896-1905.

7. Wright, A.L., F. Dou, and F.M. Hons. 2007. Crop species and tillage effects on

carbon sequestration in subsurface soil. Soil Science 172:124-131.

Curriculum Vitae - Fugen Dou

16

8. Wright, A.L., F. Dou, and F.M. Hons. 2007. Soil organic C and N distribution

for wheat cropping systems after 20 years of conservation tillage in central

Texas. Agriculture, Ecosystems & Environment 121:376-382.

9. Dou, F., A.L. Wright, and F.M. Hons. 2007. Depth distribution of soil organic C

and N after long-term soybean cropping in Texas. Soil & Tillage Research

94:530-536.

10. Dou, F., A.L. Wright, and F.M. Hons. 2008. Dissolved and soil organic C after

long-term conventional and no tillagesorghum cropping. Communications in

Soil Science and Plant Analysis 39:1-13.

11. Dou, F., A.L.Wright, and F.M. Hons. 2008. Sensitivity of labile soil organic

carbon to tillage in wheat-based cropping systems. Soil Science Society of

America Journal 72:1445-1453.

12. Dou, F., C.L. Ping, L. Guo, and T. Jorgeson. 2008. Estimating the impact of

seawater on the production of soil water-extractable organic carbon during

coastal erosion. Journal of Environmental Quality 37:2368-2374.

13. Xu, C., L. Guo, F. Dou, and C.L. Ping. 2009. Potential DOC production from

size fractionated Arctic tundra soils. Cold Regions Science and Technology

55:141-150.

14. Dou, F., X. Yu, C.L. Ping, G. Michaelson, L. Guo, and T. Jorgeson. 2010.

Spatial variation of tundra soil organic carbon along the coastline of northern

Alaska. Geoderma 154:328-335.

15. Ping, C.L., G. Michaelson, L. Guo, T. Jorgenson, M. Kanevskiy, Y. Shur, F.

Dou, and J. Liang. 2011. Soil carbon and material fluxes across the eroding

Alaska Beaufort Sea coastline. JGR- Biogeosciences

(doi:10.1029/2010JG001588, 2011).

16. Trostle, C.L., L. Tarpley, F. Turner, and F. Dou.2011. Soil ammonium diffusion

constraints contribute to large differences in N supply to rice in the Southern U.S.

Communications in Soil Science and Plant Analysis 42:1898-1904.

17. Dou, F., F. Hons, W. R. Ocumpaugh, J. C. Read, M. A. Hussey, and J. P. Muir.

2013. Soil organic carbon pools under switchgrass grown as a bioenergy crop

compared to other conventional crops. Pedosphere 23: 409-416.

18. Segoli, M., S. De Gryze,F. Dou, J. Lee, W.M. Post, K. Denef, and J. Six. 2013.

AggModel: A soil organic matter model with measurable pools for use in

incubation studies. Ecological Modelling 263: 1-9.

19. Dou, F., F. Hons, A. Wright, T. Boutton, and X. Yu. 2014. Soil carbon

sequestration in sorghum cropping systems: Evidence from stable isotopes and

aggregate-size fractionation. Soil Science 179:68-74.

Curriculum Vitae - Fugen Dou

17

20. Dou, F., J.P. Wight, L.T. Wilson, J. Storlien, and F. Hons. 2014. Simulation of

biomass yield and soil organic carbon under bioenergy sorghum production. Plos

One 9(12): e115598. doi:10. 1371/journal.pone.0115598.

Manuscript Submitted (3):

1. Dou, F., J. Wight, L.T. Wilson, J. Storlien, and F. Hons. Simulation of biomass

yield and soil organic C under bioenergy sorghum production. Submitted to the

journal of Plos One.

2. Dou, F., L. Tarpley, A. Wright, X. Yu, and A. Mohammad. Effects of planting

date and variety on rice ratoon crop production. Submitted to the Journal of

Integrative Agriculture.

3. Wight, J., F. Hons, J. Storlien, and F. Dou. Management, Productivity and

Nutrient Relationships in Biomass Sorghum Systems. Submitted to Bioenergy

Research.

Conference Proceedings (1):

1. Michaelson, G., C.L. Ping, L. Lynn, T. Jorgenson, andF. Dou.2008. Properties

of eroding coastline soils along Elson Lagoon, Barrow Alaska. In Proceedings of

the Ninth International Conference on Permafrost, eds. D.L. Kane and K.M.

Hinkel. Fairbanks, AK. 1:1197-1020.

Published Abstracts/Presentations (47):

1. Dou, F., F.M. Hons, W.R. Ocumpaugh, J.C. Read, M.A. Hussey, J.P. Muir, and

W.J. Grichar. 2002. Soil organic C pools under different crop covers in Texas.

Annual Meeting of the Soil Science Society of America. Indianapolis, IN.

November, 2002.

2. Dou, F., F.M. Hons, and A.L. Wright. 2003. Tillage and cropping sequence

influences on soil carbon and nitrogen. Annual Meeting of the Soil Science

Society of America. Denver, CO. November, 2003.

3. Dou, F., A.L. Wright, and F.M. Hons. 2004. Size and density fractionation of

soil carbon and nitrogen in long-termwheat management systems. Annual

Meeting of the Soil Science Society ofAmerica. Seattle, WA. November, 2004.

4. Dou, F., A.L. Wright, F.M. Hons, and T.W. Boutton. 2005. Tillage and cropping

sequence effects on changes in

13

C and

15

N of soil organic matter fractions.

Symposium on Greenhouse Gases and Carbon Sequestration in Agriculture and

Forestry. Baltimore, MD. March, 2005.

5. Jorgenson, T., C.L. Ping, L. Guo, Y. Shur, G. Michaelson, F. Dou, V. Tumskoy,

M. Kanevsky, and J. Brown. 2005. Flux and transformation of soil organic

carbon across the eroding coastline of northern Alaska, preliminary results.

Curriculum Vitae - Fugen Dou

18

Annual Meeting of the American Geophysical Union. San Francisco, CA.

December, 2005.

6. Xu, C., F. Dou, L. Guo, and C.L. Ping. 2005. Soluble organic carbon in size

fractionated Arctic tundra soils, Alaska. Annual Meeting of the American

Geophysical Union. San Francisco, CA. December, 2005.

7. Dou, F., L. Guo, C.L. Ping, and T. Jorgenson. 2005. Partitioning and fate of

potentially exported soil organic carbon from the eroding coastline of northern

Alaska. Annual Meeting of the American Geophysical Union. San Francisco,

CA. December, 2005.

8. Michealson, G. C.L. Ping, T. Jorgenson, F. Dou, Y. Shur, and L. Guo. 2006.

Methane and carbon dioxide release from eroding coastline of North Slope,

Alaska. 18

th

World Congress of Soil Science. Philadelphia, PA. July, 2006.

9. Dou, F., C.L. Ping, L. Guo, and T. Jorgenson. 2006. Fate of exported soil organic

carbon from the eroding coastline of northern Alaska. Annual Meeting of the

Arctic Science. Fairbanks, AK. October, 2006.

10. Wright, A.L., F. Dou, and F.M. Hons. 2006. Long-term crop rotation and tillage

impacts on soil dissolved organic carbon. Annual Meeting of the Soil Science

Society of America. Indianapolis, IN. November, 2006.

11. Jorgenson, T., C.L. Ping, Y. Shur, G. Michaelson, F. Dou, M. Kanevsky, D.

Fortier, and V. Tumskov. 2006. Factors affecting the rates of carbon flux into the

Alaskan Beaufort Sea from coastal erosion. Annual Meeting of the American

Geophysical Union. San Francisco, CA. December, 2006.

12. Lynn, L., C.L. Ping, T. Jorgenson, D. Fortier, and F. Dou. 2006. Changes in soils

and permafrost as a function of distance to the Beaufort Sea coast, Alaska.

Annual Meeting of the American Geophysical Union. San Francisco, CA.

December, 2006.

13. Ping, C.L., F. Dou, T. Jorgenson, G. Michaelson, L.A. Lynn, Y. Shur, and M.

Kanevsky. 2006. Pedological properties ofthe eroding coastline along the

Beaufort Sea, Alaska. Annual Meeting of the American Geophysical Union. San

Francisco, CA. December, 2006.

14. Dou, F., C.L. Ping, L. Guo, and T. Jorgenson. 2006. Distribution and

characterization of soil organic carbon along the coastline of northern Alaska.

Annual Meeting of the American Geophysical Union. San Francisco, CA.

December, 2006.

15. Dou, F., X. Yu, C.L. Ping, L. Guo, T. Jorgenson, and G. Michaelson. 2007.

Spatial analysis of soil organic carbon along the coastline of northern Alaska.

Annual Meeting of the Soil Science Society of America. New Orleans, LA.

November, 2007.

Curriculum Vitae - Fugen Dou

19

16. Ping, C.L., F. Dou, T. Jorgenson, L. Lynn, and G. Michaelson. 2008. Carbon

flux across the eroding coastline of Beaufort Sea, Alaska. Ocean Science

Meeting. Orlando, FL. March, 2008.

17. Dou, F., C.L. Ping, L. Guo, T. Jorgenson, G. Michaelson, and L. Lynn. 2008.

Carbon and nitrogen in delta sediments ofColville River, Alaska. International

Conference of Permafrost. Fairbanks, AK. June, 2008.

18. Dou, F., S. De Gryze, C. Denef, M. Post, and J. Six. 2008. Aggregate modeling

and measurable pools. International Conference of C Biogeochemistry in

Qinghai-Tibet Plateau, China. Qinghai, Xining. July, 2008 (invited).

19. Dou, F., S. De Gryze, C. Denef, M. Post, and J. Six. 2008. Aggregate modeling

and measurable pools. Joint Annual Meeting of the Soil Science Society of

America. Houston, TX. October, 2008.

20. Six, J., S. De Gryze,F. Dou, K. Paustian, G. Olchin, and M. Post. 2009.

Incorporating physicochemical protection by the soil matrix into biogeochemical

models. Annual Meeting of the Soil Science Society of America. Pittsburgh, PA.

November, 2009.

21. Dou, F., J. Lee, J. Six, L. T. Wilson, and Y. Yang. 2009. Nutrient management

effect on Texas rice yield by DAYCENT. Annual Meeting of the Soil Science

Society of America. Pittsburgh, PA. November, 2009.

22. Dou, F., L. Tarpley, and M. Way. 2010. Stale seedbed effects on rice production

in Texas. 33

rd

Rice Technical Working Group Meeting. Biloxi, MS. February,

2010.

23. Dou, F., K. Kostyanovskiy, and G. McCauley. 2010. Rice floodwater and soil

extractable C and N in main and ratoon crop production. Annual Meeting of the

Soil Science Society of America. Long Beach, CA. November 2010.

24. Dou, F.,S. De Gryze, J. Lee, M. Segoli, M. Post, and J. Six. 2011. Aggregate

modeling and measurable pools. 41

th

Biological Systems Simulation Conference.

Austin, TX. April, 2011.

25. Kostyanovsky, K. andF. Dou. 2011. Effects of wetting and drying and N

fertilization on C and N transformations and emissions of CO2in Southeast

Texas rice soils. Annual Meeting of the Soil Science Society of America. San

Antonio, TX. October, 2011.

26. Dou, F., J. Wight, and F. Hons. 2011. The early effects of bioenergy sorghum

production on greenhouse gases and carbon sequestration. Annual Meeting of the

Soil Science Society of America.San Antonio, TX. October, 2011.

Curriculum Vitae - Fugen Dou

20

27. Dou, F. and L. Tarpley. 2012. Effects of variety and nitrogen on rice production

in Texas. 34

th

Rice Technical Working Group Meeting. Hot Spring, AR.

February, 2012.

28. McClung, A.M., X.G. Zhou, and F. Dou. 2012. Agronomic potential of southern

rice cultivars under organic management. 34

th

Rice Technical Working Group

Meeting. Hot Spring, AR. February, 2012.

29. Dou, F.2012. Research update of integrated cropping system nutrient

management group. Texas State Soil CritiqueMeeting. Texas AgriLife Research

Center at Vernon, TX. June 2012.

30. Dou, F., J. Storlien, J. Wight, and F. Hons. 2012. Assessing the potential effects

of biomass sorghum production on soil C sequestration and GHG emissions.

Annual Meeting of the Soil Science Society of America. Cincinnati, Ohio.

October 2012.

31. Dou, F., J. Soriano, and R. Tabien. 2012. Water management effects on rice

production. Annual Meeting of the Soil Science Society of America. Cincinnati,

Ohio. October 2012.

32. Storlien, J., F. Hons, J. Wight, J. Heilman, T. Gentry, and F. Dou. 2012. Impacts

of biomass sorghum feedstock production on carbon sequestration and

greenhouse gas emissions in the south central region. Annual Meeting of the Soil

Science Society of America. Cincinnati, Ohio. October 2012.

33. Wight, J., F. Hons, J. Soriano, H. Shahandeh, F. Dou, and T. Provin. 2012.

Bioenergy sorghum management affects yield, nutrient uptake and soil quality.

Annual Meeting of the Soil Science Society of America. Cincinnati, Ohio.

October 2012.

34. Dixon, J., J. Thomas, H. Kim, F. Dou, and Y. Deng. 2012. Fungi and their

potential role in phosphorus efficiency inwetland soils. Annual Meeting of the

Soil Science Society of America.Cincinnati, Ohio. October 2012.

35. Tarpley, L. and F. Dou. 2012. Decreasing arsenic levels in rice while

maintaining yields: water management, variety selection, and plant growth

regulator application at two Texas locations. Rice Foundation Research Meeting.

October 30, 2012. Memphis, Tennessee, USA.

36. Wilson, L. T., G. N. McCauley, M. O. Way, L. Tarpley, R. E. Tabien, Y. Yang,

F. Dou, X. G. Zhou, and S. Senseman. 2012. 2012 Rice Research Report for

Texas. Rice Outlook Conference. Dec.11, 2012. San Diego, California, USA.

37. Dou, F., A. McClung, and S. Zhou. 2013. The impacts of soil amendments on

organic rice production. Annual Meeting of the Soil Science Society of America.

Tampa, FL. November 2013.

Curriculum Vitae - Fugen Dou

21

38. Dou, F., Storlien, F. Hons, and J. Wight. 2013. Residue removal, nitrogen

application, and crop rotation effects on soil organic carbon and nitrogen in

biomass sorghum production: An application of the DNDC model. Annual

Meeting of the Soil Science Society ofAmerica. Tampa, FL. November 2013.

39. Wight, J., F. Hons, J. Storlien, F. Dou, and H. Shahandeh. 2013. Management,

productivity and nutrient relationships in biomass sorghum systems. Annual

Meeting of the Soil Science Society ofAmerica. Tampa, FL. November 2013.

40. Storlien, J., F. Hons, J. Wight,F. Dou, T. Gentry, and J. Heilman. 2013.

Assessment of life cycle greenhouse gas emissions from bioenergy sorghum

production in central Texas. Annual Meeting of the Soil Science Society of

America. Tampa, FL. November 2013.

41. Storlien, J., F. Hons, J. Wight, F. Dou, and T. Gentry. 2013. Changes in soil

organic carbon following five years ofbioenergy sorghum production. Annual

Meeting of the Soil Science Society ofAmerica. Tampa, FL. November 2013.

42. Tarpley, L, A. Mohammed, andF. Dou. 2013. Variety, planting time, and

fungicide management effects on rice grain yield. Annual Meeting of the Soil

Science Society of America. Tampa, FL. November 2013.

43. Dou, F, X. Zhou, A. McClung, J. Storlien, Y. Lang, A. Torbert, F. Hons, B.

Ward, S. Kresovich, and J. Wight. 2014. Cover crop, soil amendments, and

variety effects on organic rice production inTexas. 35

th

Rice Technical Working

Group Meeting. New Orleans, LA. February, 2014 (in press).

44. Liu, G., F. Dou, L. Tarpley, and A.R. Mohammad. 2014. Effect of early planting

rice on the yields of main and ratoon crops. 35

th

Rice Technical Working Group

Meeting. New Orleans, LA. February, 2014 (in press).

45. Storlien, J. O., F. Dou, Y. Lang, A. Torbert, F. Hons, and J. Wight. 2014. Cover

crop, nitrogen, and variety effects on greenhouse gas emissions from organic rice

production in east Texas. 35

th

Rice Technical Working Group Meeting. New

Orleans, LA. February, 2014 (in press).

46. Dou, F., J. Soriano, and R. Tabien. 2014. Water, soil and variety effects on rice

production in the greenhouse. 35

th

Rice Technical Working Group Meeting. New

Orleans, LA. February, 2014 (in press).

47. Wang, P., Y. Lan, X. Luo, Z. Zhou, S. Zou, and F. Dou. 2014. Integrated sensor

system for rice growth status monitoring based on UGS. 35

th

Rice Technical

Working Group Meeting. New Orleans, LA. February, 2014 (in press).

48. Dou, F., F. Hons, X. Zhou, A. McClung, S. Wang, A. Torbert, Y. Lang, G. Li, J.

Storlien, and J. Wight. 2014. Effects of cover crop and soil amendment on

organic rice production. Annual Meeting of the Soil Science Society of America.

Long Beach, CA. November 2014.

Curriculum Vitae - Fugen Dou

22

49. Dou, F., J. Storlien, Y. Wang, J. Wight, and F. Hons. 2014. Simulate the effects

of residue removal and nitrogen application on nitrous oxide and carbon dioxide

emissions in biomass sorghum production. Annual Meeting of the Soil Science

Society of America. Long Beach, CA. November 2014.

50. Storlien, J., F. Dou, G. Liu, and F. Hons. 2014. Organic rice management effects

on greenhouse gas emissions in southeast Texas. Annual Meeting of the Soil

Science Society of America. Long Beach, CA. November 2014.

51. Storlien, J. F. Hons, F. Dou, and J. Wight. 2014. Agronomic management

impacts on carbon dioxide and nitrous oxide emissions over four years of

bioenergy sorghum production. Annual Meeting of the Soil Science Society of

America. Long Beach, CA. November 2014.

52. Wight, J., F. Hons, J. Storlien, F. Dou, and H. Shahandeh. 2014. Soil carbon and

macronutrient changes following four years of bioenergy sorghum production.

Annual Meeting of the Soil Science Society of America. Long Beach, CA.

November 2014.

53. McClung, A., R. Gerad, R. Chaney,F. Dou, X. Zhou, and S. Duke. 2014.

Organic rice production: Minimizing exposure to grain arsenic. Annual Meeting

of the Soil Science Society of America. Long Beach, CA. November 2014.

Editor Reviewed Publications (46):

1. Dou, F.and L. Tarpley. 2010. Stand establishment. In Texas Rice Production

Guidelines, ed. M.O. Way. Texas A&M AgriLife Research, USDA/ARS, Texas

A&M AgriLife Extension. B-6131-1/14:2.

2. Tabien, R.E., A.M. McClung, L. Tarpley, and F. Dou. 2010. Varieties. In Texas

Rice Production Guidelines, ed. M.O. Way. Texas A&M AgriLife Research,

USDA/ARS, Texas A&M AgriLifeExtension. B-6131-5/10:2-8.

3. Dou, F.and L. Tarpley. 2010. Planting dates. In Texas Rice Production

Guidelines, ed. M.O. Way. Texas A&M AgriLife Research, USDA/ARS, Texas

A&M AgriLife Extension. B-6131-5/10:8-9.

4. McCauley, G.N., L. Tarpley, and F. Dou. 2010. Seeding rates. In Texas Rice

Production Guidelines, ed. M.O. Way. Texas A&M AgriLife Research,

USDA/ARS, Texas A&M AgriLife Extension. B-6131-5/10:9-11.

5. Dou, F.and L. Tarpley. 2010. Fertility management. In Texas Rice Production

Guidelines, ed. M.O. Way. Texas A&M AgriLife Research, USDA/ARS, Texas

A&M AgriLife Extension. B-6131-5/10:16-20.

6. Dou, F.and L. Tarpley. 2010. Variety evaluation for main and ratoon crop yield

potential. In Texas Rice Production Guidelines, ed. M.O. Way. Texas A&M

AgriLife Research, USDA/ARS, Texas A&M AgriLife Extension. B-6131-5/10:21-23.

Curriculum Vitae - Fugen Dou

23

7. McCauley, G.N., L. Tarpley, and F. Dou. 2010. Ratoon (second) crop

production. In Texas Rice Production Guidelines, ed. M.O. Way. Texas A&M

AgriLife Research, USDA/ARS, Texas A&M AgriLife Extension. B-6131-5/10:54-55.

8. Chandler, J.M., L. Tarpley, G.N. McCauley, M.O. Way, F. Dou,and X.G. Zhou.

2010. Texas rice production practices. In Texas Rice Production Guidelines, ed.

M.O. Way. Texas A&M AgriLife Research, USDA/ARS, Texas A&M AgriLife

Extension. B-6131-5/10:55-56.

9. Dou, F.and L. Tarpley. 2011. Stand establishment. In Texas Rice Production

Guidelines, eds. M.O. Way and G.N. McCauley. Texas A&M AgriLife Research,

USDA/ARS, Texas A&M AgriLife Extension. B-6131-5/11:2.

10. Tabien, R.E., A.M. McClung, L. Tarpley, and F. Dou. 2011. Varieties. In Texas

Rice Production Guidelines, eds. M.O. Way and G.N. McCauley. Texas A&M

AgriLife Research, USDA/ARS, Texas A&M AgriLife Extension. B-6131-5/11:2-9.

11. Dou, F.and L. Tarpley. 2011. Planting dates. In Texas Rice Production

Guidelines, eds. M.O. Way and G.N. McCauley. Texas A&M AgriLife Research,

USDA/ARS, Texas A&M AgriLife Extension. B-6131-5/11:9.

12. McCauley, G.N., L. Tarpley, and F. Dou. 2011. Seeding rates. In Texas Rice

Production Guidelines, eds. M.O. Way and G.N. McCauley. Texas A&M

AgriLife Research, USDA/ARS, Texas A&M AgriLife Extension. B-6131-5/11:10-12.

13. Dou, F.and L. Tarpley. 2011. Fertility management. In Texas Rice Production

Guidelines, eds. M.O. Way and G.N. McCauley. Texas A&M AgriLife Research,

USDA/ARS, Texas A&M AgriLifeExtension. B-6131-5/11:17-21.

14. Dou, F.and L. Tarpley. 2011. Variety evaluation for main and ratoon crop yield

potential. In Texas Rice Production Guidelines, eds. M.O. Way and G.N.

McCauley. Texas A&M AgriLife Research, USDA/ARS, Texas A&M AgriLife

Extension. B-6131-5/11:22-24.

15. McCauley, G.N., L. Tarpley, and F. Dou. 2011. Ratoon (second) crop

production. In Texas Rice Production Guidelines, eds. M.O. Way and G.N.

McCauley. Texas A&M AgriLife Research, USDA/ARS, Texas A&M AgriLife

Extension. B-6131-5/11:56-57.

16. Chandler, J.M., L. Tarpley, G.N. McCauley, M.O. Way, F. Dou,and X.G. Zhou.

2011. Texas rice production practices. In Texas Rice Production Guidelines, eds.

M.O. Way and G.N. McCauley. Texas A&M AgriLife Research, USDA/ARS,

Texas A&M AgriLife Extension. B-6131-5/11:57.

17. Dou, F.and L. Tarpley. 2012. Stand establishment. In Texas Rice Production

Guidelines, eds. M.O. Way and G.N. McCauley. Texas A&M AgriLife Research,

USDA/ARS, Texas A&M AgriLife Extension. B-6131-12/11:2.

Curriculum Vitae - Fugen Dou

24

18. Tarpley, L., M.O. Way, X.G. Zhou, and F. Dou. 2012. Seed Treatments. In

Texas Rice Production Guidelines, eds. M.O. Way and G.N. McCauley. Texas

A&M AgriLife Research, USDA/ARS, Texas A&M AgriLife Extension. B-6131-12/11:2.

19. Tabien, R.E., A.M. McClung, L. Tarpley, and F. Dou. 2012. Varieties. In Texas

Rice Production Guidelines, eds. M.O. Way and G.N. McCauley. Texas A&M

AgriLife Research, USDA/ARS, Texas A&M AgriLife Extension. B-6131-12/11:2-9.

20. Dou, F.and L. Tarpley. 2012. Planting dates. In Texas Rice Production

Guidelines, eds. M.O. Way and G.N. McCauley. Texas A&M AgriLife Research,

USDA/ARS, Texas A&M AgriLife Extension. B-6131-12/11:9.

21. McCauley, G.N., L. Tarpley, and F. Dou. 2012. Seeding rates. In Texas Rice

Production Guidelines, eds. M.O. Way and G.N. McCauley. Texas AgriLife

Research, USDA/ARS, Texas AgriLife Extension. B-6131-12/11:10-12.

22. Dou, F.and L. Tarpley. 2012. Fertility management. In Texas Rice Production

Guidelines, eds. M.O. Way and G.N. McCauley. Texas A&M AgriLife Research,

USDA/ARS, Texas A&M AgriLifeExtension. B-6131-12/11:17-21.

23. Dou, F.and L. Tarpley. 2012. Variety evaluation for main and ratoon crop yield

potential. In Texas Rice Production Guidelines, eds. M.O. Way and G.N.

McCauley. Texas A&M AgriLife Research, USDA/ARS, Texas A&M AgriLife

Extension. B-6131-12/11:22-23.

24. McCauley, G.N., L. Tarpley, and F. Dou. 2012. Ratoon (second) crop

production. In Texas Rice Production Guidelines, eds. M.O. Way and G.N.

McCauley. Texas A&M AgriLife Research, USDA/ARS, Texas A&M AgriLife

Extension. B-6131-12/11:54-55.

25. Chandler, J.M., L. Tarpley, G.N. McCauley, M.O. Way, F. Dou,and X.G. Zhou.

2012. Texas rice production practices. In Texas Rice Production Guidelines, eds.

M.O. Way and G.N. McCauley. Texas A&M AgriLife Research, USDA/ARS,

Texas A&M AgriLife Extension. B-6131-12/11:56.

26. Dou, F. and L. Tarpley. 2013. Stand Establishment. In Texas Rice Production

Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson, and B.

Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife Research.

B-6131: p. 2.

27. Dou, F. and L. Tarpley. 2013. Planting Dates. In Texas Rice Production

Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson, and B.

Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife Research.

B-6131: p. 9.

28. Dou, F. and L. Tarpley. 2013. Fertility management. In Texas Rice Production

Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson, and B.

Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife Research.

B-6131: p. 17-21.

Curriculum Vitae - Fugen Dou

25

29. Dou, F. and L. Tarpley. 2013. 2011 Variety evaluation for main crop yield

potential. In Texas Rice Production Guidelines, eds. M.O. Way, G.N. McCauley,

S. Zhou, L.T. Wilson, and B. Morace. Texas A&M AgriLife Extension and

Texas A&M AgriLife Research. B-6131: p. 22-23.

30. Tabien, R. E., A. M. McClung, L. Tarpley, andF. Dou. 2013. Varieties. In Texas

Rice Production Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T.

Wilson, and B. Morace. Texas A&M AgriLife Extension and Texas A&M

AgriLife Research. B-6131: p. 3-9.

31. McCauley, G. N., L. Tarpley, andF. Dou. 2013. Seeding rates. In Texas Rice

Production Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson,

and B. Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife

Research. B-6131: p. 10-12.

32. McCauley, G. N., L. Tarpley, F. Dou, and X. G. Zhou. 2013. Ratoon (second)

crop production. In Texas Rice Production Guidelines, eds. M.O. Way, G.N.

McCauley, S. Zhou, L.T. Wilson, and B. Morace. Texas A&M AgriLife

Extension and Texas A&M AgriLife Research. B-6131: p. 54-55.

33. Tarpley, L., M. O. Way, X. G. Zhou, andF. Dou. 2013. Seed treatments. In

Texas Rice Production Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou,

L.T. Wilson, and B. Morace. Texas A&M AgriLife Extension and Texas A&M

AgriLife Research. B-6131: p. 2-3.

34. Wilson, L. T., Y. Yang, J. Wang, J. Vawter, G. N. McCauley,F. Dou, and L.

Tarpley. 2013. Rice Development Advisory Vers. 2.0. In Texas Rice Production

Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson, and B.

Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife Research.

B-6131.

35. Chandler, J. M., L. Tarpley, G. N. McCauley, M. O. Way,F. Dou, and X. G.

Zhou. 2013. Texas Rice Production Practices. In Texas Rice Production

Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson, and B.

Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife Research.

B-6131: p. 56.

36. Zhou, X. G., R. E. Tabien, andF. Dou. 2013. Disease resistance evaluation of

rice varieties and lines under center pivot irrigation system in South Africa, 2012.

Plant Disease Management Reports 7: FC110.

37. Dou, F. and L. Tarpley. 2014. Stand Establishment. In Texas Rice Production

Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson, and B.

Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife Research.

B-6131: p. 2.

38. Tarpley, L., M. O. Way, X. G. Zhou, andF. Dou. 2014. Seed treatments. In

Texas Rice Production Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou,

L.T. Wilson, and B. Morace. Texas A&M AgriLife Extension and Texas A&M

AgriLife Research. B-6131: p. 3.

Curriculum Vitae - Fugen Dou

26

39. Tabien, R. E., A. M. McClung, L. Tarpley, andF. Dou. 2014. Varieties. In Texas

Rice Production Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T.

Wilson, and B. Morace. Texas A&M AgriLife Extension and Texas A&M

AgriLife Research. B-6131: p. 3-8.

40. Dou, F. and L. Tarpley. 2014. Planting Dates. In Texas Rice Production

Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson, and B.

Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife Research.

B-6131: p. 9.

41. McCauley, G. N., L. Tarpley, andF. Dou. 2014. Seeding rates. In Texas Rice

Production Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson,

and B. Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife

Research. B-6131: p. 10-13.

42. Dou, F. and L. Tarpley. 2014. Nitrogen management. In Texas Rice Production

Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson, and B.

Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife Research.

B-6131: p. 21-23.

43. Dou, F. and L. Tarpley. 2014. 2012 Variety evaluation for main crop yield

potential. In Texas Rice Production Guidelines, eds. M.O. Way, G.N. McCauley,

S. Zhou, L.T. Wilson, and B. Morace. Texas A&M AgriLife Extension and

Texas A&M AgriLife Research. B-6131: p. 24-26.

44. McCauley, G. N., L. Tarpley, F. Dou, and X. G. Zhou. 2014. Ratoon (second)

crop production. In Texas Rice Production Guidelines, eds. M.O. Way, G.N.

McCauley, S. Zhou, L.T. Wilson, and B. Morace. Texas A&M AgriLife

Extension and Texas A&M AgriLife Research. B-6131: p. 84-86.

45. Chandler, J. M., L. Tarpley, G. N. McCauley, M. O. Way,F. Dou, and X. G.

Zhou. 2014. Texas Rice Production Practices. In Texas Rice Production

Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson, and B.

Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife Research.

B-6131: p. 87-88.

46. Wilson, L. T., Y. Yang, J. Wang, J. Vawter, G. N. McCauley,F. Dou, and L.

Tarpley. 2014. Rice Development Advisory Vers. 2.0. In Texas Rice Production

Guidelines, eds. M.O. Way, G.N. McCauley, S. Zhou, L.T. Wilson, and B.

Morace. Texas A&M AgriLife Extension and Texas A&M AgriLife Research.

B-6131: p. 98-99.

Popular Articles (10):

1. Dou, F.and L. Tarpley. 2011. Effects of phosphorus and potassium fertilization

on rice main and ratoon crop yields. Texas Rice. XI (Special Section,

Highlighting Research):21-22.

2. Dou, F.and L. Tarpley. 2011. Nitrogen use efficiency in rice production: Data

reanalysis. Texas Rice. XI (2):3-6.

Curriculum Vitae - Fugen Dou

27

3. Dou, F.and L. Tarpley. 2011. Variety, nitrogen, and disease management

effects on rice ratoon crop yield. Texas Rice. XI (5):3-6.

4. Kostyanovsky, K. and F. Dou. 2011. Effects of wetting and drying cycles on

nitrogen and carbon transformations in rice soil. Texas Rice. XI (3):3-7.

5. Soriano, J., F. Dou,and R. Tabien. 2011. Aerobic rice technology: A way to

battle drought in rice. Texas Rice. XI (6):1-7.

6. Dou, F., A. McClung, and S. Zhou. 2013. Integrating choice of variety, soil

amendments and cover crops to optimize organic rice production. Texas Rice

Special Section.

7. Dou, F. and L. Tarpley. 2013. Nitrogen application and varietal evaluation for

Texas rice production. Texas Rice Special Section.

8. Dou, F.,G. McCauley, L. Tarpley, G. Liu, and J. Vawter. 2014. Effects of rice

variety on main, ratoon, and total cropyields. Texas Rice Special Section.

9. Dou, F.,G. McCauley, L. Tarpley, G. Liu, and J. Vawter. 2014. Effects of

nitrogen rates and splitting on rice ratoon (second) crop production. Texas Rice

Special Section.

10. Dou, F.,J.O. Storlien, Y. Lang, G. Li, S. Wang, G. Liu, and K. Landry. 2014.

Organic rice management affects greenhouse gas emissions. Texas Rice Special

Section.

Contracts And Grants Research Progress Report (14):

1. Dou, F. and L. Tarpley. 2010. Annual report of the rice varietal evaluation,

nutrient management improvement, and planting date study for Texas production

practices. Submitted to Texas Rice Research Foundation.

2. Dou, F. 2010. Integrated cropping system nutrient management. Submitted to

USDA Hatch Program.

3. Dou, F. and L. Tarpley. 2011. Annual report of the rice varietal evaluation,

nutrient management improvement, and planting date study for Texas production

practices. Submitted to Texas Rice Research Foundation.

4. Dou, F. 2011. Integrated cropping system nutrient management. Submitted to

USDA Hatch Program.

5. Dou, F. and L. Tarpley. 2012. Annual report ofthe rice varietal evaluation and

nutrient management improvement study for Texas production practices.

Submitted to Texas Rice Research Foundation.

6. Dou, F. 2012. Integrated cropping system nutrient management. Submitted to

USDA Hatch Program.

Curriculum Vitae - Fugen Dou

28

7. Dou, F. G. McCauley, and L. Tarpley. 2013. Annual report of the rice varietal

evaluation and nutrient management improvement study for Texas production

practices. Submitted to Texas Rice Research Foundation.

8. Dou, F., A. McClung, and S. Zhou. 2013. Annual report of the improving soil

quality to increase yield and reduce diseases in organic rice production project.

Submitted to USDA Southern SARE.

9. Dou, F., F. Hons, A. Torbert, and J. Wight. 2013. Annual report of the improving

soil quality, C sequestration, and mitigating greenhouse gas emission in organic

rice production project. Submitted to USDA NIFA.

10. Dou, F. 2013. Integrated cropping system nutrient management. Submitted to

USDA Hatch Program.

11. Dou, F. G. McCauley, and L. Tarpley. 2014. Annual report of the rice varietal

evaluation and nutrient management improvement study for Texas production

practices. Submitted to Texas Rice Research Foundation.

12. Dou, F., A. McClung, and S. Zhou. 2014. Annual report of the improving soil

quality to increase yield and reduce diseases in organic rice production project.

Submitted to USDA Southern SARE.

13. Dou, F. 2014. Integrated cropping system nutrient management. Submitted to

USDA Hatch Program.

14. Dou, F., F. Hons, A. Torbert, and J. Wight. 2014. Annual report of the improving

soil quality, C sequestration, and mitigating greenhouse gas emission in organic

rice production project. Submitted to USDA NIFA.

X. PROFESSIONAL HONORS AND AWARDS

2005 Tom Slick Fellowship

2000 Second Award of Chinese Academy of Agricultural Sciences

Trainees ' Honors/Awards

2014 Ms. Mariana Valdez Velarca (M.S. Student) received an Excellence

Fellowship for FY 2015 by College of Agriculture and Life Sciences

2014 Mr. Yong Wang (Ph.D. Student) was selected for a 2014 Smith Travel

Grant from the Department of Soil and Crop Sciences

2014 Mr. Yong Wang (Ph.D. Student) was awarded a 2014-15 Energy Institute

Fellowship sponsored by ConocoPhillips