



UNIVERSITY OF  
HOHENHEIM



AMAIZE-P

## Third Block Seminar

P Management at field and farm level

CAU-UHOH 40 Years Anniversary Ceremony

10-16 November 2019



Sino-German International Research Training Group AMAIZE-P

中德国际研究培训项目

Adaptation of maize-based food-feed-energy systems  
to limited phosphate resources

粮食-饲料-能源玉米生产系统磷资源高效利用

Funded by

**DFG**

Deutsche  
Forschungsgemeinschaft  
German Research Foundation

(GRK 2366)

**Friday, 08 November 2019:** Arrival of 3 German participants, Check-in at Palace Garden Hotel

**Saturday, 09 November 2019:** Bilateral meetings between German and Chinese partners (optional)

**Sunday, 10 November 2019:** Arrival of 10 participants, Check-in at Palace Garden Hotel (1/2 day)

12:00-13:00 Loose lunch at Palace Garden Hotel (optional)

**Afternoon: Excursion to Shandong Province**

15:00-16:30 Transfer from Palace Garden Hotel (PIs) and CAU West Campus (PhD students) to Beijing South Railway Station by subway lines no. 16 and 4 (interchange at Xiyuan subway station)

17:16-19:15 Travel by high-speed train G153 from Beijing South to Tai'an, Shandong Province.  
Transfer by bus from train station to Tai'an Ramada Plaza Hotel, Tai'an  
泰安东尊华美达大酒店

20:00-21:00 Dinner at Tai'an Ramada Plaza Hotel, Tai'an

Two nights at Tai'an Ramada Plaza Hotel in Tai'an.

**Monday, 11 November 2019:**

07:00-07:45 Breakfast, Tai'an Ramada Plaza Hotel Restaurant

**Morning: Visit Shandong Agricultural University**

08:00-12:30 Scientific meeting: Introduction of research work; visit National Key Lab and expt. farm

12:30-13:00 Lunch at Shandong Agricultural University restaurant

**Afternoon: Visit Mount Tai (Taishan):**

13:00-14:00 Bus transfer from Tai'an to Zhongtianmen (Zhongtian Gate)

14:00-16:00 Climb from Zhongtianmen to peak of Mount Tai

16:00-18:00 Mountaintop activities; visit scenic spots on peak of Mount Tai

18:00-19:00 Downhill by cable car to Zhongtianmen, return to hotel by bus.

20:00-21:00 Dinner at Tai'an Ramada Plaza Hotel, Tai'an

**Tuesday, 12 November 2019:**

06:30-07:00 Breakfast, Tai'an Ramada Plaza Hotel Restaurant

**Morning: Visit Confucius' hometown Qufu**

08:00-10:00 Transfer to Qufu (hometown of Confucius)

10:00-12:00 Visit the "3 Confucius Sites" (Confucius Mansion, Confucius Temple, Confucius Forest)

12:00-13:30 Lunch at restaurant in Qufu

**Afternoon: Visit Confucius' hometown Qufu (contd.)**

13:30-15:00 Visit the "3 Confucius Sites" (contd.)

**Return to Beijing**

Transfer by bus to Qufu East Railway Station.

15:57-18:32 Travel by high-speed trains G132 and G412 from Qufu East Station to Beijing South Railway Station.

19:00-20:30 Return to CAU and Palace Garden Hotel by subway lines no. 4 and 16.

19:30-20:30 Dinner at Palace Garden Hotel or outside (self organized)

**Wednesday, 13 November 2019: Third Block seminar of IRTG AMAIZE-P (I)**06:30-07:45 Breakfast, Palace Garden Hotel, 3<sup>rd</sup> floor

08:00: German PIs, post-docs and international invited speakers staying at Palace Garden Hotel: Transfer from Hotel to CAU West Campus by subway line 16, accompanied by Dr. Marco Roelcke.

Three German PhD students staying at East Campus: 08:00 h departure from CAU East Campus to West Campus, accompanied by Ms. Yajuan Li.

**Morning session: Location: Meeting room 5-219, Zihuan Building, CAU West Campus**

Time	Content	Speakers	Title/organization
Chairperson: Prof. Dr. Torsten Müller			
09:00-09:10	Opening speech	Prof. Fusuo Zhang	College of Resources and Environmental Sciences (CRES), CAU
<b>Two Keynotes</b>			
09:10-09:55	Designing and Assessing Sustainable Cereal Based Cropping Systems that Increase Productivity and Ecoefficiency	Adjunct Prof. Dr. J.K. Ladha	UC Davis
09:55-10:40	Quantification of the contribution of indigenous soil microbial biomass P pool to P availability and plant P uptake	Prof. Dr. Gu Feng	College of Resources and Environmental Sciences (CRES), CAU

10:40-11:10: Coffee/tea break and **Group photo**

Chairperson: Prof. JK Ladha

<b>Keynote</b>			
11:10-11:55	Cluster roots and their functional equivalents: ecological and agronomic significance	Prof. Hans Lambers	University of West Australia

12:00-14:00 Lunch break at Ganyuan Restaurant, CAU West Campus

**Afternoon session: Location: Meeting room 5-219, Zihuan Building, CAU West Campus****Presentations by doctoral researchers**

Chairpersons: Prof. Li Huafen, Dr. Marco Roelcke

14:00-14:30	RS 3.3	10 min. German + 10 min. Chinese PhD student + 10 min. discussion, same for all below	
14:30-15:00	RS 3.4		
15:00-15:30	RS 4.1		
15:30-16:00	RS 4.2		

16:00-16:30 Coffee/tea break

Chairpersons: Assoc. Prof. Jianbin Guo, M.Sc. Gero Becker

16:30-17:00	RS 2.4	10 min. German + 10 min. Chinese PhD student + 10 min. discussion, same for all below	
17:00-17:30	RS 3.1		
17:30-18:00	RS 3.2		

19:00-21:00 Dinner for VIPs, Invited Speakers and PIs. Longdayuan Restaurant near Langlizi Hotel

19:00-∞ Independent activities by Chinese and German PhD students and post-docs. Location t.b.d.

**Thursday, 14 November 2019: Third Block seminar of IRTG AMAIZE-P (II)**

06:30-07:30 Breakfast, Palace Garden Hotel, 3<sup>rd</sup> floor

07:45: German PIs, post-docs and international invited speakers staying at Palace Garden Hotel: Transfer from hotel to CAU West Campus by subway line 16. // Three German PhD students staying at East Campus: 07:30 h departure from CAU East Campus to West Campus, accompanied by Ms. Yajuan Li.

**Morning session: Location: Meeting room 5-219, Zihuan Building, CAU West Campus**

Time	Content	Speakers	Title/organization
Chairperson: Prof. Dr. Lixing Yuan			
<b>Invited speakers</b>			
08:30-09:30	Pathways to sustainable water and nutrient management in intensive field crop production	Prof. Dr. Hartmut Stützel	Institute of Horticultural Production Systems, University of Hannover
09:30-10:15	Some basics on heavy metal pollution	Prof. Dr. Andreas Fangmeier	Institute of Landscape and Plant Ecology, University of Hohenheim

10:15-10:40: Coffee/tea break

Chairpersons: Assoc. Prof. Liu Wenxin, Dr. Sebastian Munz

<b>Presentations by doctoral researchers (contd.)</b>			
10:40-11:10	RS 2.1	10 min. German + 10 min. Chinese PhD student + 10 min. discussion, same for all below	
11:10-11:40	RS 2.2		
11:40-12:10	RS 2.3		

12:15-14:00 Lunch break at Ganyuan Restaurant, CAU West Campus

**Afternoon session: Location: Meeting room 5-219, Zihuan Building, CAU West Campus**

**Presentations by doctoral researchers (contd.)**

Chairpersons: Prof. Yang Huaiyu, Dr. Tobias Hartmann

14:00-14:30	RS 1.1	10 min. German + 10 min. Chinese PhD student + 10 min. discussion, same for all below	
14:30-15:00	RS 1.2		
15:00-15:30	RS 1.3		

15:30-16:00 Coffee/tea break

**General discussion and closing remarks**

Chairperson: Prof. Torsten Müller

16:00-17:20	General discussion (days 1 and 2)		
17:20-17:30	Closing remarks: Prof. Dr. Fusuo Zhang, Prof. Torsten Müller, Prof. Xuejun Liu		
17:30-19:00	Dinner: Self-organized by research groups (suggested)		

**Evening session: Educational programme for doctoral candidates**

**Location: Meeting room 5-219, Zihuan Building, CAU West Campus**

Chairperson: Prof. Lixing Yuan

19:00-21:00	Why is <i>Grevillea thelemanniana</i> so rare, when it is so easy to grow in cultivation?	Prof. Hans Lambers:	University of West Australia
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**Friday, 15 November 2019: Anniversary Ceremony of 40 Years Collaboration between China Agricultural University (CAU) and University of Hohenheim (UHOH)**

06:30-07:30 Breakfast, Palace Garden Hotel, 3<sup>rd</sup> floor

07:45 h: German PIs, post-docs and international invited speakers staying at Palace Garden Hotel: Transfer from hotel to CAU West Campus by subway line 16. // Three German PhD students staying at CAU East Campus: 08:00 h departure from E Campus to W Campus, accompanied by Ms. Yajuan Li

**Location: Meeting Room *gui bin ting*, New Plant Protection Building, CAU West Campus**

**08:30-09:00 h: Meeting between CAU and UHOH**

**Six representatives from Chinese side and German side each:**

- 1) Discuss the progress on education and scientific research cooperation between CAU and UHOH
- 2) Discuss and promote the future cooperation in agricultural education and science and technology between China and Germany

**Location: Lecture Hall first floor, New Plant Protection Building, CAU West Campus**

**09:00-11:30 h: The Sino-German Agricultural Cooperation Forum**

**Topic: Summarizing the achievements of 40 years' cooperation between CAU and UHOH and looking forward to the future of Sino-German agricultural cooperation**

Time	Content	Speakers	Title/organization
Forum Chairman: Prof. Dr. Gong Yuanshi, Vice-President, CAU			
09:00-09:05	Opening of the forum and introduction of VIPs	Prof. Dr. Gong Yuanshi	Vice-President, CAU
09:05-09:20	Welcome address	Prof. Dr. Sun Qixin	President, CAU
09:20-09:35	Presentation: Sino-German agricultural cooperation from German Perspective	Prof. Dr. Stephan Dabbert	Rector, University of Hohenheim
09:35-09:55	Group photo & Coffee/tea break		
09:55-10:10	Presentation: Hohenheim, the Mekka of Plant Nutrition	Academician Prof. Dr. Zhang Fusuo	Spokesperson Chinese side of IRTG AMAIZE-P, College of Resources and Environmental Sciences, CAU
10:10-10:25	Presentation: The experience in University of Hohenheim was my turning point for research in plant pathology	Academician Prof. Dr. Kang Zhensheng	Northwest Agricultural & Forestry University, Yangling
10:25-10:30	Welcome address	t.b.c.	Representative from China Scholarship Council (CSC)
10:30-10:35	Welcome address	t.b.c.	Representative from Chinese Ministry of Agriculture and Rural Affairs (MARA)
10:35-10:40	Problems and future challenges for German/European agriculture	Ms. Grit Puchan	Director, Ministry of Rural Affairs and Consumer Protection, Baden-Württemberg

10:40-10:45	Sino-German Research projects from the perspective of a donor organization	Ms. Dr. Zhang Baiyu	Deputy Director German side, Sino-German Center for Research Promotion (DFG-NSFC)
10:45-10:50	Collaborative Sino-German Research from the perspective of an evaluator	Prof. Dr. Hartmut Stützel	Institute of Horticultural Production Systems, University of Hannover
10:50-11:00	Cradle of International Development Studies in China: Contribution of CIAD at CAU.	Ms. Prof. Dr. Xu Xiuli	College of Humanities and Development Studies, Dean of China Institute for South-South Cooperation in Agriculture (CISSCA), CAU
11:00-11:10	Presentation of major highlights in 40 years of cooperation between University of Hohenheim and CAU	Prof. Dr. Reiner Doluschitz	Spokesperson German side of previous Sino-German IRTG, University of Hohenheim
11:10-11:25	Introduction of the new International Research Training Group AMAIZE-P	Prof. Dr. Torsten Müller	Spokesperson German side of IRTG AMAIZE-P, University of Hohenheim
11:25-11:30	Announcement of end of Forum	Prof. Dr. Gong Yuanshi	Vice-President, CAU
11:45-13:00	Lunch at Ganyuan Restaurant, West Campus Table meal for participants of Morning Meeting and for speakers with presentations Buffet lunch for all other participants of Sino-German Agricultural Cooperation Forum		

***Parallel afternoon session I: General meeting of Chinese and German PIs***

**Location: Meeting room 4-206, Zihuan Building, CAU West Campus**

Chairs: Prof. Fusuo Zhang, Prof. Torsten Müller, Prof. Xuejun Liu, Dr. Marco Roelcke

14:00-17:00 Discussion of general issues, including:

- (1) Programme 4<sup>th</sup> Block Seminar (March 2020 in HOH)
- (2) Location 5<sup>th</sup> and 6<sup>th</sup> Block Seminars
- (3) Exchange of doctoral researchers
- (4) Doctoral agreements, joint supervision
- (5) Financial issues
- (6) Data hosting and exchange agreement
- (7) Internet platform, bilingual contents
- (8) Flyer, public relations
- (9) Joint P field trials
- (10) Common analytical protocols

18:30-20:30 Dinner (self-organized)

**Parallel afternoon session II: CSC-supported PhD program between CAU and WUR (Wageningen)**

**Location: Meeting room 5-219, Zihuan Building, CAU West Campus**

Chairs: Assoc. Prof. Zhang Ying, Assoc. Prof. Zhang Lin

14:00-14:10	Brief introduction on the CSC-supported PhD program between CAU and WUR	Assoc. Prof. Ms. Zhang Ying, CRES, CAU
14:10-15:10	Brief reports by 11 PhD students (Chinese side)	Approx. 5 min per person
15:10-15:25	Coffee/tea break	
15:25-16:25	Brief reports by 11 PhD students (Chinese side)	Approx. 5 min per person
16:25-16:35	Summary and comments	Assoc. Prof. Mr. Zhang Lin, CRES, CAU

18:30-20:30 Dinner (self-organized)

**Saturday, 16 November 2019: Bilateral meetings between German and Chinese partners (optional)**

**Sunday, 17 November 2019: Departure of most German participants**

## Participants List

### Invited speakers

1. Adjunct Prof. Dr. J.K. Ladha, University of California Davis, USA
2. Prof. Dr. Hans Lambers, University of West Australia, Australia,
3. Prof. Dr. Hartmut Stützel, University of Hannover, Germany
4. Prof. Dr. Gu Feng, China Agricultural University, China

### German Side

5. Ms. Grit Heike Puchan, Ministry Director, Ministry of Rural Affairs and Consumer Protection Baden-Württemberg
6. Dr. Baiyu Zhang, Vice Director (German side), Sino-German Center for Science Promotion (CDZ) (DFG-NSFC), Beijing
7. Prof. Dr. Stephan Dabbert, Rector, University of Hohenheim
8. Prof. Dr. Ralf Vögele, Dean, Faculty of Agricultural Sciences, University of Hohenheim
9. Prof. Dr. Torsten Müller, IRTG Spokesperson (German side), Institute of Crop Science, University of Hohenheim
10. Prof. Dr. Reiner Doluschitz, IRTG Deputy Spokesperson (German side), Institute of Farm Economics, University of Hohenheim
11. Dr. Marco Roelcke, IRTG Coordinator (German side), University of Hohenheim
12. Prof. Dr. Tobias Würschum, State Plant Breeding Institute, University of Hohenheim
13. Prof. Dr. Waltraud Schulze, Department of Plant Systems Biology, University of Hohenheim
14. Prof. Dr. Andreas Fangmeier, Institute of Landscape and Plant Ecology, University of Hohenheim
15. Prof. Dr. Joachim Müller, Institute of Agricultural Engineering, University of Hohenheim
16. Dr. Willmar Leiser, Post-doctoral researcher, State Plant Breeding Institute, University of Hohenheim
17. Dr. Tobias Hartmann, Post-doctoral researcher, Institute of Crop Science, University of Hohenheim
18. Dr. Sebastian Munz, Post-doctoral researcher, Institute of Crop Science, University of Hohenheim
19. Mr. M.Sc. Gero Becker, Institute of Agricultural Engineering, University of Hohenheim
20. Ms. Thea Mi Weiss, Doctoral candidate, Research Subject (RS) 1.1
21. Ms. Melissa Mang Doctoral candidate, RS 1.2
22. Ms. Xuelian Li, Doctoral candidate external, RS 1.2
23. Ms. Mingjie He, Doctoral candidate, RS 1.3
24. Ms. Fangfang Ning, Doctoral candidate external, RS 2.1
25. Mr. Daniel Wanke, Doctoral candidate, RS 2.2
26. Ms. Yawen You, Doctoral candidate external, RS 2.2
27. Ms. Alice Hack, Doctoral candidate, RS 2.3
28. Ms. Andrea Giovanna Niño Savala, Doctoral candidate, RS 2.4
29. Mr. Peter Erwin Lux, Doctoral candidate, RS 3.1
30. Mr. Moritz Novotny, Doctoral candidate, RS 3.2
31. Mr. Konstantin Dinkler, Doctoral candidate, RS 3.3



32. Mr. Jens Pfersich, Doctoral candidate, RS 3.4
33. Ms. Qing Xue, Doctoral candidate external, RS 3.4
34. Ms. Xiaomin Yu, Doctoral candidate, RS 4.1

### **Chinese Side**

35. Prof. Dr. Qixin Sun, President, China Agricultural University (CAU)
36. Prof. Dr. Yuanshi Gong, Vice President, China Agricultural University (CAU)
37. Prof. Dr. Fusuo Zhang, Academician, IRTG Spokesperson (Chinese side), National Academy of Agriculture Green Development, CAU
38. Prof. Dr. Kang Zhensheng, Academician, Northwest Agricultural & Forestry University
39. Prof. Dr. Weizhe Feng, Director for CAU International Office, CAU
40. Prof. Dr. Xu Xiuli, College of Humanities and Development Studies, Dean of China Institute for South-South Cooperation in Agriculture (CISSCA), CAU
41. Mr. Jingqing Gao, former director, Chinese Ministry of Agriculture (MOA)
42. Prof. Yiping Cao, CRES, CAU, retired
43. Prof. Dr. Rongfeng Jiang, vice Dean of CRES, CAU
44. Prof. Dr. Xuejun Liu, IRTG Deputy Spokesperson (Chinese side), CRES, CAU
45. Prof. Dr. Lixing Yuan, Coordinator of IRTG (Chinese side), CRES, CAU
46. Prof. Dr. Xinping Chen, College of Resources and Environment, Southwest University
47. Prof. Dr. Huaiyu Yang, College of Resources and Environment, Southwest University
48. Prof. Dr. Huafen Li, CRES, CAU
49. Prof. Dr. Chunqin Zou, CRES, CAU
50. Prof. Dr. Jianbo Shen, CRES, CAU
51. Prof. Dr. Xuexian Li, CRES, CAU
52. Prof. Dr. Junling Zhang, CRES, CAU
53. Prof. Dr. Yuanmei Zuo, CRES, CAU
54. Prof. Dr. Pu Wang, College of Agronomy and Biotechnology, CAU
55. Prof. Dr. Shunli Zhou, College of Agronomy and Biotechnology, CAU
56. Prof. Dr. Xiongkui He, College of Agronomy and Biotechnology, CAU
57. Prof. Dr. Jianfen Liang, College of Food Science and Nutritional Technology, CAU
58. Prof. Dr. Ji Ma, College of Economics and Management, CAU
59. Prof. Dr. Haifeng Xiao, College of Economics and Management, CAU
60. Prof. Dr. Haigang Li, College of Inner Mongolia Agricultural University
61. Assoc. Prof. Sen Yang, CRES, CAU
62. Assoc. Prof. Tao Zhang, CRES, CAU
63. Assoc. Prof. Aohan Tang, CRES, CAU
64. Assoc. Prof. Dr. Lin Zhang, CRES, CAU
65. Assoc. Prof. Dr. Ying Zhang, CRES, CAU
66. Assoc. Prof. Dr. Lingyun Cheng, CRES, CAU
67. Assoc. Prof. Dr. Huimin Yuan, CRES, CAU
68. Assoc. Prof. Dr. Chaochun Zhang, CRES, CAU
69. Assoc. Prof. Dr. Wenfeng Cong, CRES, CAU
70. Assoc. Prof. Dr. Qingfeng Meng, College of Agronomy and Biotechnology, CAU
71. Assoc. Prof. Dr. Prof. Wenxin Liu, College of Agronomy and Biotechnology, CAU
72. Assoc. Dr. Yajia Liu, College of Agronomy and Biotechnology, CAU
73. Assoc. Prof. Dr. Qiugang Ma, College of Animal Science and Engineering, CAU
74. Assoc. Prof. Dr. Jianbin Guo, College of Engineering, CAU

75. Dr. Tianxiang Hao, Postdoc, CRES, CAU
76. Dr. Qichao Zhu, Postdoc, CRES, CAU
77. Dr. Wei Zhang, Postdoc, College of Resources and Environment, Southwest University
78. Mr. Dongdong Li, Doctoral candidate on Chinese side, RS 1.1
79. Mr. Zhe Chen, Doctoral candidate on Chinese side, RS 1.2
80. Mr. Zheng Zhao, Doctoral candidate on Chinese side, RS 1.2
81. Mr. Liyang Wang, Doctoral candidate on Chinese side, RS 1.2
82. Ms. Yanting Zhong, Doctoral candidate on Chinese side, RS 1.3
83. Mr. Yang Han, Doctoral candidate on Chinese side, RS 1.3
84. Ms. Zhenzhen Yan, Doctoral candidate on Chinese side, RS 2.1
85. Ms. Yuan Wang, Doctoral candidate on Chinese side, RS 2.2
86. Ms. Baiyu Qiao, Doctoral candidate on Chinese side, RS 2.3
87. Ms. Xin Ma, Doctoral candidate on Chinese side, RS 2.4
88. Mr. Zhong Zhuang, Doctoral candidate on Chinese side, RS 2.4
89. Mr. Xiaohong Sun, Doctoral candidate on Chinese side, RS 3.1
90. Ms. Xiuxiu Chen, Doctoral candidate on Chinese side, RS 3.1
91. Ms. Lan Li, Doctoral candidate on Chinese side, RS 3.2
92. Ms. Bowen Li, Doctoral candidate on Chinese side, RS 3.3
93. Ms. Xinyue He, Doctoral candidate on Chinese side, RS 3.4
94. Ms. Xiaomin Xie, Doctoral candidate on Chinese side, RS 3.4
95. Ms. Yajuan Li, Doctoral candidate on Chinese side, RS 4.1
96. Mr. Zihan Wang, Doctoral candidate on Chinese side, RS 4.2
97. Ms. Wenjia Yu, Doctoral candidate on Chinese side, RS 4.2
98. Ms. Haiqing Gong, Doctoral candidate on Chinese side, RS 4.2
  
99. Mr. Zhichong Wang, Centre for Chemicals Application Technology (CCAT), CAU
100. Mr. Xin Zhao, College of Humanities and Development Studies, CAU

### **Front cover**

UAV flying over maize field trial in Eckartsweier. Photo: © Thea Mi Weiss, 31 May 2019.

### **Project website:**

<https://amaize-p.uni-hohenheim.de/>

**Contact Information:**

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Prof. Dr. Wang Pu: mobile:

Ms. Ma Xin: mobile:

Prof. Dr. Torsten Müller: mobile:

Dr. Marco Roelcke: mobile:

**Hotel accomodation Beijing:**

Palace Garden Hotel

朗丽兹西山花园酒店 (*Langlizi xishan huayuan jiudian*)

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Haidian District, 100094 Beijing

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Beijing Subway Line 16. Three stops from hotel to CAU:

Palace Garden Hotel: Station name: **Yongfeng South** 永丰南

China Agricultural University (W Campus): Station name: **Nongdananlu** 农大南路

**Hotel accomodation Tai'an:**

Tai'an Ramada Plaza Hotel

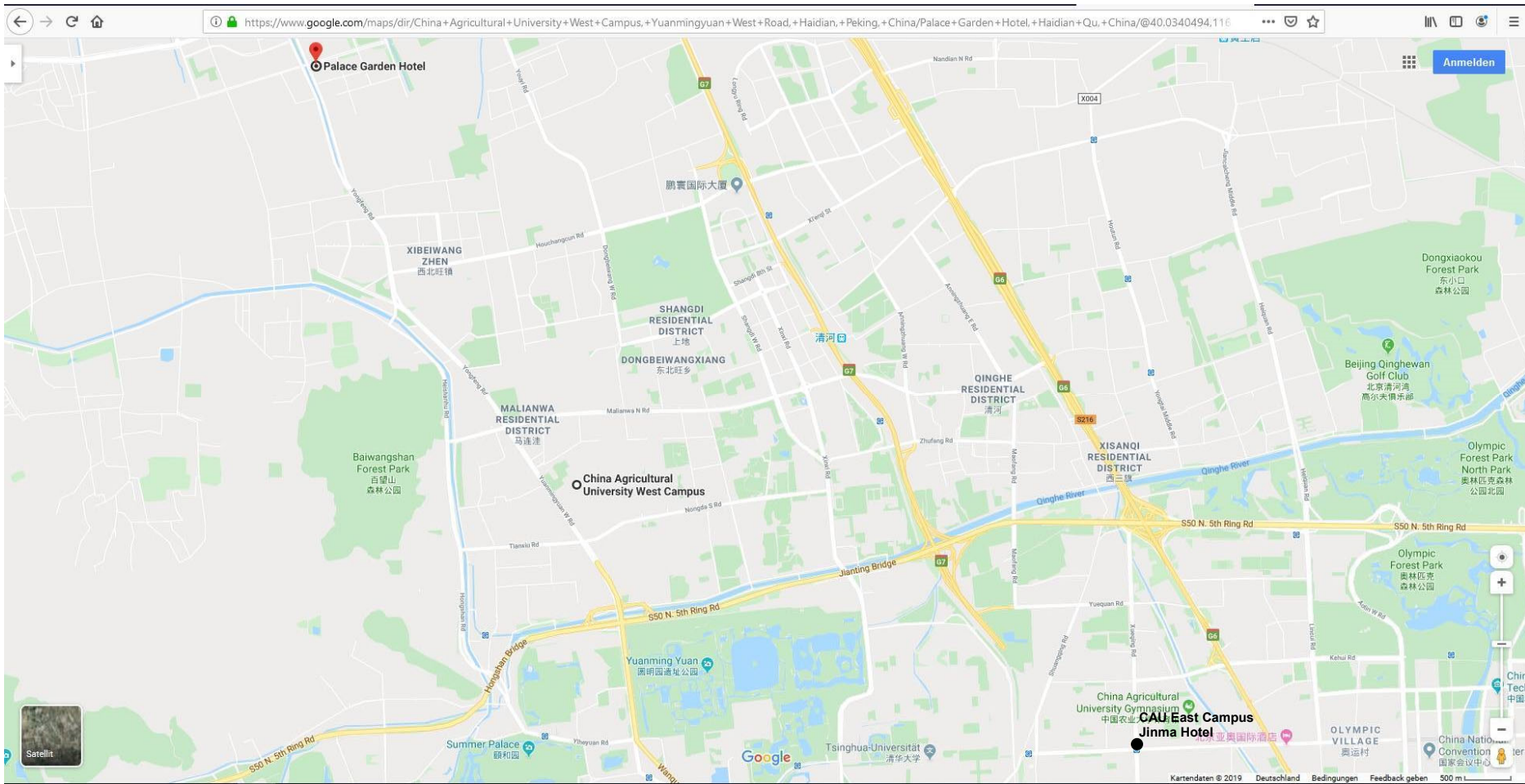
泰安东尊华美达大酒店

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(see map on next page)



Location of Palace Garden Hotel, China Agricultural University (CAU) West Campus and East Campus, Jinma Hotel in Beijing.