

2022 WheatCAP Graduate Student Survey

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* Required

Email *

Your email



Q1. How confident are you in the following knowledge areas? *

	Not at all	Somewhat	Moderately	Very
Genetics (mendelian, quantitative, population, molecular)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Genomics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experimental design and statistics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data management (collection, analysis, database)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bioinformatics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Factors in crop plants that impact productivity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Selection theory and techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Methods for breeding in selfing and outcrossing systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plant breeding strategies (traditional, molecular, physiological)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Teaching strategies (Inquiry-based learning approaches)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Genomic
selection
(experiment set
up, analysis)



UAS-HTP
(operating
equipment,
experiment set
up, data analysis)



Q2. Are there any other knowledge areas in plant breeding you feel are important?

Your answer



Q3. What are three knowledge areas you feel most confident in?

Column 1

Genetics (mendelian, quantitative,
population, molecular)

☐

Genomics

☐

Experimental design and statistics

☐

Data management (collection, analysis,
database)

☐

Bioinformatics

☐

Factors in crop plants that impact
productivity

☐

Selection theory and techniques

☐

Methods for breeding in selfing and
outcrossing systems

☐

Plant breeding strategies (traditional,
molecular, physiological)

☐

Teaching strategies (Inquiry-based learning
approaches)

☐

Genomic selection (experiment set up,
analysis)

☐

UAS-HTP (operating equipment, experiment
set up, data analysis)

☐

Other (please specify)

☐

If you selected other, please specify here

Your answer



Q4. How confident do you feel in the following skill sets? *

	Not at all	Somewhat	Moderately	Very
Work cooperatively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Define and solve problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manage data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consider alternative hypotheses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate your scientific ideas orally	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make phenotypic selections	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Molecular techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
UAV-HTP techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Genomic selection techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Observe and interpret results	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make marker assisted selections	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Utilize SNPs or genotype by sequencing (GBS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Statistical analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Choose parents
and make
crosses

☐☐☐☐

Make genome
wide selections

☐☐☐☐

Write scientific
papers and
grants

☐☐☐☐

Q5. Are there any other skill sets you feel are important in your field of study?

Your answer



Q6. What are the three skill sets you feel most confident in?

Column 1

Work cooperatively ☐

Design experiments ☐

Define and solve problems ☐

Manage data ☐

Consider alternative hypotheses ☐

Communicate your scientific ideas orally ☐

Make phenotypic selections ☐

Molecular techniques ☐

UAV-HTP techniques ☐

Genomic selection techniques ☐

Observe and interpret results ☐

Make marker assisted selections ☐

Utilize SNPs or genotype by sequencing
(GBS) ☐

Statistical analysis ☐

Choose parents and make crosses ☐

Make genome wide selections ☐

Write scientific papers and grants ☐



Other (please specify)



If you selected other, please specify here

Your answer



Q7. What percentage of your time did you use the following skill sets in the past year? *

	0-25%	25-50%	50-75%	75-100%
Work cooperatively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Define and solve problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manage data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consider alternative hypotheses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate your scientific ideas orally	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make phenotypic selections	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Molecular techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
UAV-HTP techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Genomic selection techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Observe and interpret results	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make marker assisted selections	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Utilize SNPs or genotype by sequencing (GBS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Statistical analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Choose parents
and make
crosses

☐☐☐☐

Write scientific
papers or grants

☐☐☐☐

Make genome
wide selections

☐☐☐☐

Q8. How important do you believe the following methods are in educating graduate students?

*

	Not at all	Somewhat	Moderately	Very
One-on-one mentoring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration with faculty other than your advisor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration with other graduate students at your institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration with graduate students from OTHER institutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Teaching experience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Independent development of hypothesis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Independent development of research designs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Field experience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Laboratory experience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exposure to diverse research methods and tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience writing grants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience presenting results	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



(meetings,
papers)

Exposure to
plant breeding
students from
different ethnic
backgrounds



Q9. In your opinion, what are the three best methods for educating graduate students?

Column 1

One-on-one mentoring

☐

Collaboration with faculty other than your advisor

☐

Collaboration with other graduate students at your institution

☐

Collaboration with graduate students from OTHER institutions

☐

Teaching experience

☐

Independent development of hypothesis

☐

Independent development of research designs

☐

Field experience

☐

Laboratory experience

☐

Exposure to diverse research methods and tools

☐

Experience writing grants

☐

Experience presenting results (meetings, papers)

☐

Exposure to plant breeding students from different ethnic backgrounds

☐

Other (please specify)

☐

If you selected other, please specify here

Your answer

Q10. To what extend are you interested in the plant breeding field? (0 to 10 scale)

1	2	3	4	5	6	7	8	9	10
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q11. How motivated do you feel in pursuing a career in plant breeding? (0 to 10 scale)

1	2	3	4	5	6	7	8	9	10
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Q12. Please indicate the percentage of time you participated in the following activities over the past year

*

	0-25%	25-50%	50-75%	75-100%
Mentoring an undergraduate student	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inquiry-based learning approached	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Planning research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Working in the field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conducting research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Being mentored by your advisor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participating in the online community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gathering, analyzing, and managing data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Problem solving	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Q13. Please indicate the value of these activities for understanding the profession of plant breeding

*

	Not at all	Somewhat	Moderately	Very
Mentoring an undergraduate student	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inquiry-based learning approached	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Planning research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Working in the field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conducting research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Being mentored by your advisor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participating in the online community	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gathering, analyzing, and managing data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Problem solving	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Q14. Please indicate how often you have interacted with the following types of people in the past year. *

	Never	Once a year or less	Once every three months or less	Once a month or less	Once a week or less	More than once a week
Other undergraduates at my institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students in my lab	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other graduate students at my institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students from other institutions in the US	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students from minority serving institutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students from institutions outside the US	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My advisor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Researchers at my institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Researchers from minority serving institutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Researchers from other institutions in the US	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Researchers outside of the US	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Researchers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



from
businesses
and/or private
companies



Q15. Please indicate what was the most prevalent topic of your interactions with your contemporaries? *

	Class assignments/ classes in general	Trouble shooting research	Collaborations (i.e. working on a research project)	Social	Mentoring/ being mentored	Interpreting research results
My mentee	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students in my lab	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other graduate students at my institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students from other institutions in the US	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students from minority serving institutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Students from institutions outside the US	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My advisor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Researchers at my institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Researchers from minority serving institutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Researchers from other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



institutions
in the US

Researchers
outside of
the US

☐☐☐☐☐☐

Researchers
from
businesses
and/or
private
companies

☐☐☐☐☐☐

What is your gender

☐ Male

☐ Female

☐ Prefer Not To Answer

Q17. Are you a US citizen?

☐ Yes

☐ No

Q18. Is English your primary language?

☐ Yes

☐ No

Q19. How many years have you been funded as a graduate student by the
WheatCAP grant?

Your answer



Q20. How can we improve the WheatCAP education program?

Your answer

Q21. Suggestions for future education activities?

Your answer

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