

2022 Phenomics Data – REEU Schedule

Activities	Tentative timeline	Responsible Party	Virtual/In-person
Students reach out to mentors to get to know each other and tentative discussion of project and gather relevant materials to read.	15 April – 15 May	Mentor-Student	Self-Organized
Mentor evaluation on recruitment process	15 Mar – 15 April	Evaluators-Mentor	Virtual
Arrival at WSU Campus (for those in Pullman)	27 May – 19 June	OUR	-
REEU program evaluation survey <ul style="list-style-type: none"> ▪ Meeting with project evaluators 	1 June 9.30 – 10.30 am	Mentor	Virtual
REEU site research presentation – <ul style="list-style-type: none"> ▪ Know the mentors and their research. 5 min about their background, career path, and research directions <ul style="list-style-type: none"> • Rebecca McGee • Subhanshu Gupta • Kate Evans • Mike Pumphrey • Stephen Ficklin • Lisa DeVetter • Arron Carter • Sindhuja Sankaran ▪ Summary of REEU research site and expectations 	1 June 11.00 am – 12.00 pm	Phenomics Program	Virtual
Student headshot and brief intro about themselves for project website [Example: https://labs.wsu.edu/sankaran-phenomics/undergrad-research-exp/students/]	3 June 5.00 pm	Student	Self-Organized
Phenomics Data Boot Camp [Very basics 20-30 min followed by Q & A] <ul style="list-style-type: none"> ▪ Research Basics – Best Practices [Sutton Mooney] ▪ Molecular genetics/Basics in genetics – RNA, DNA – Central dogma [Yu Ma] ▪ Breeding cycle (genetic gain, process, timeline, challenges) – Field crops [Arron Carter] ▪ Breeding cycle – Tree fruit [Kate Evans] ▪ Ag basics – Strategies to improve production and management [Clarke Neely] ▪ Phenomics [Sindhuja Sankaran] ▪ Genomics [Mike Pumphrey] 	8 June 8.30 am – 12.00 pm 8.30 – 9.00 am 9.00 – 9.30 am 9.30 – 10.00 am 10.00 – 10.30 am 10.30 – 11.00 am 11.00 – 11.30 am 11.30 am – 12.00 pm	Phenomics Program	Virtual
Introduction to Image Basics and Image Processing	22 June 9 am-12 pm	Phenomics Program	Virtual
Research project (research-project and mentor preferred) <ul style="list-style-type: none"> ▪ One-on-one meeting with mentor and team. 	Between 1 June- 20 June – depending on arrival	Mentor-Student	In-person

<ul style="list-style-type: none"> ▪ Research orientation & project development 	<p>1-page document describing brief background and research objectives due at 5 pm on 10 June</p>		
Welcome to Research at WSU – Orientation and Icebreaker Event	2 June	OUR	In-person
<p>Research project (research-project and mentor preferred)</p> <ul style="list-style-type: none"> ▪ Literature review ▪ Research project implementation 	1 June – 29 July or 8 Aug or 19 Aug	Mentor-Student Student Mentor-Student	In-person
<p>Student-faculty interaction and student-student communication</p> <ul style="list-style-type: none"> ▪ REEU student-faculty ▪ REEU student-graduate student/research associate 	1 June – 29 July or 8 Aug or 19 Aug	Mentor-Student	In-person
<p>Student reporting</p> <ul style="list-style-type: none"> ▪ Progress presentation ▪ Abstract submission ▪ Project report 	7 July Due: 15 July Due: 29 July [or 8 Aug or 19 Aug]	Student	In-person/ Virtual
<ul style="list-style-type: none"> ▪ Poster presentation and participation at WSU Summer Research Symposium 	29 July (AM)	OUR	In-person
<p>Professional/career development</p> <ul style="list-style-type: none"> ▪ Research brown bags ▪ Graduate education ▪ Poster development workshop ▪ <i>Abstract development workshop</i> ▪ <i>Oral presentation preparation workshop</i> <p>[Ethics workshop</p> <p>Leadership Workshop</p> <p>How to Give a Good Talk: a Hands-on Workshop (laptop needed)</p> <p>Finding and Applying for Jobs workshop</p> <p>Career Panel – Beyond Academia]</p>	<p>Brown Bag #1 Thursday, June 9th 12:00 – 1:00pm Spark 327 Speaker: Emily Cukier, Science Librarian</p> <p>Brown Bag #2 – Resume/CV Part One: How-To's Thursday, June 16th 12:00 – 1:00pm Fulmer 150 (see attached campus map, with Fulmer Hall circled in red) Presented by the Academic Success and Career Center (ASCC)</p> <p>Brown Bag #3: Thursday, June 23rd Resume/CV Part Two: Feedback Bring your resume/CV with you and receive feedback from the ASCC staff.</p> <p>Brown Bag #4: Thursday, June 30th Top Ten Tips for Scholarship Essays Presented by April Seehafer, Director – Distinguished Scholarships Program, WSU</p>	OUR	In-person/ Virtual

	<p>Brown Bag #5: Thursday, July 7th How to Write An Abstract Presented by Dr. Jeremy Lessmann, Director – Undergraduate Research, WSU</p> <p>Brown Bag #6: Thursday, July 14th Graduate School Information Session Presented by Dr. Raymond Herrera – Associate Dean of the Graduate School and Director of the McNair Program, WSU</p> <p>Workshop: How to Create a Poster Monday, July 18 Presented by Dr. Jeremy Lessmann, Director – Undergraduate Research, WSU</p> <p>Challenges and Research Opportunities in Wearable Computing, Stress Monitoring, and Machine Learning Thursday, July 21st Presented by Ramesh Sah, Ph.D. Student in Computer Science</p>		
Introduction to Extension (Dr. Lisa DeVetter)	21 July, 3-4 pm	Phenomics Program	Virtual
Discussion with Dr. Steve Van Vleet	30 June		
Field Trip (Prosser, WA) – Research farm, research center, and ag automation	14 July	Phenomics Program	In-person
Field Day Participation	Spillman Field Day 30 June (PM)	Phenomics Program	In-person
Entertainment <ul style="list-style-type: none"> ▪ https://summerresearch.wsu.edu/summer-in-pullman/ [In Pullman] ▪ https://www.tripadvisor.com/Attractions-g58622-Activities-Mount_Vernon_Washington.html [Mt. Vernon] ▪ https://www.tripadvisor.com/Attractions-g58820-Activities-Wenatchee_Washington.html [Wenatchee] 	27 May – 30 July 2022	Self-organized	In-person
Phenomics Program Closing	29 July 2022 (PM)	Phenomics Program	In-person
REEU program evaluation survey	29 July 2022 (PM)	Phenomics Program	In-person
Departure from WSU campus	30 July 2022 [End date: 8 Aug and 19 Aug]	-	-
Post-Summer Program Survey		OUR	Online