

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0					1	2	3
Week 32	4	5	6	7	8	9	10
Week 33	11	12	13	14	15	16	17
Week 34	18	19	20	21	22	23	24
Week 35	25	26	27	28	29	30	31

Draft Timeline v1
Draft comprehensive timeline for advisor review
with printed and digital copies

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 36	1	2	3	4	5	6	7
	Maintain Rig Maintain equipment	Align Seed Laser Equipment maintenance	Submit Annual Report Submit annual report	Complete Teaching Complete teaching evaluations	Submit Outline Submit detailed proposal outline for review and approval	Confirm Doctoral Candidacy Verify and confirm doctoral candidacy status	
Week 37	8	9	10	11	12	13	14
	SPIE Student Chapter Plan and execute SPIE Student Chapter activities	Meet with Advisor Discuss progress and future plans	Define Committee & Schedule Exam Identify committee members and schedule oral exam			Update Committee Membership Update committee membership and file necessary change forms if required	
Week 38	15	16	17	18	19	20	21
	Write Research Strategy Write comprehensive Research Strategy section following BME format requirements						
Week 39	22	23	24	25	26	27	28
					Align Laser Through Microscope Align laser beam through microscope system		Confirm Exam Date Confirm oral exam date and ensure committee receives proposal with sufficient notice
Week 40	29	30					

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0			<div>1</div> <div>Image USAF Target</div> <div>Verify Pulse Duration</div> <div>+2 more</div>	<div>2</div>	<div>3</div>	<div>4</div>	<div>5</div>
Week 41	<div>6</div>	<div>7</div> <div>Acquire Preliminary Data</div>	<div>8</div> <div>Align Imaging System</div> <div>Align imaging system using USAF target for optimal resolution validation</div>		<div>10</div>	<div>11</div>	<div>12</div>
Week 42	<div>13</div>	<div>14</div> <div>Plan Pilot Microscopy Experiments</div>	<div>15</div> <div>Confirm Live Imaging Requirements</div> <div>Validate laser and optics system meets live imaging performance requirements</div>	<div>16</div>	<div>17</div>	<div>18</div>	<div>19</div>
Week 43	<div>20</div>	<div>21</div> <div>Design & Order AAV Vectors</div> <div>Design and order AAV vectors for vascular and neuronal labeling</div>	<div>22</div>	<div>23</div>	<div>24</div>	<div>25</div>	<div>26</div>
Week 44	<div>27</div>	<div>28</div> <div>Finalize Proposal & Schedule</div> <div>Finalize draft and schedule defense with committee</div>	<div>29</div>	<div>30</div>	<div>31</div>		

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0						1	2
Week 45	3	4	5	6	7	8	9
Week 46	10	11 <div>Write Methodology</div> <div>Write detailed methodology</div>	12 <div>Send Proposal to Committee</div> <div>Distribute proposal to committee members</div>	13	14	15	16
Week 47	17	18	19	20	21	22	23
Week 48	24	25	26	27	28 <div>Email Proposal to Committee</div> <div>Distribute final proposal to committee members with sufficient advance notice</div>	29	30

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 49	1	2	3	4	5	6	7
	Complete Proposal Document						
	Create Proposal Presentation						
Week 50	8	9	10	11	12	13	14
	Create Presentation Create comprehensive presentation and practice oral exam delivery						
Week 51	15	16	17	18	19	20	21
			Submit Final Proposal Document Submit Final Proposal Document		PhD Proposal oral examination Successfully defend examination before committee	Receive AAV Vectors Receive AAV vectors and prepare for in vivo injections	
Week 52	22	23	24	25	26	27	28
		Incorporate Revisions Address committee feedback and obtain final approval for proposal					
Week 1	29	30	31				

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0				1	2	3	4
				Maintain Rig Log Q2 2026			
				Maintain Spring 2026 Registration			
				+1 more			
Week 2	5	6	7	8	9	10	11
Week 3	12	13	14	15	16	17	18
Week 4	19	20	21	22	23	24	25
Week 5	26	27	28	29	30	31	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0							1 <div>Install Cr nial Win dows & Inject AAV Perform cranial window surgeries and AAV injections in pilot mice cohort</div>
Week 6	2	3	4	5	6	7	8
Week 7	9	10	11	12	13	14	15
Week 8	16	17	18	19	20	21	22
Week 9	23	24	25	26	27 <div>Monitor & Medicate Mice Monitor post-operative recovery and maintain appropriate analgesia</div>	28	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0							1
Week 10	2	3	4	5	6	7	8
Week 11	9	10	11	12	13	14	15
Week 12	16	17	18	19	20	21	22
Week 13	23	24	25	26	27	28	29
Week 14	30	31					

Acquire In Vivo Images
Acquire in vivo two-photon images comparing AAV and dye labeling methods

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0			1 Maintain Rig Log Q3 2026 Maintain equipment maintenance log for Q3 2026	2	3	4	5
Week 15	6	7	8	9	10	11	12
Week 16	13	14	15	16 Complete Pilot Datasets Complete comprehensive two-photon imaging datasets for pilot cohort	17	18	19 Configure Dual Channel Design Enhanced AAV
Week 17	20	21 Process Pilot Data Process pilot imaging data and optimize imaging protocols	22	23	24	25	26
Week 18	27	28	29	30			

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0					1 <div>Design U-Net Architecture Design U-Net architecture and prepare training datasets for vascular segmentation</div>	2	3
Week 19	4	5	6	7	8	9	10
Week 20	11	12	13	14	15	16	17
Week 21	18 <div>Configure LSCI Configure Laser Speckle Contrast Imaging for blood flow measurements</div>	19	20	21	22	23 <div>Compare Imaging Methods Compare imaging performance across different labeling methods in vivo</div>	24
Week 22	25	26	27	28 <div>Implement U-Net Pipeline Implement and validate U-Net segmentation pipeline on pilot data</div>	29	30	31

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 23	1	2	3	4	5	6	7
Week 24	8	9	10	11	12	13	14
Week 25	15	16	17	18	19	20	21
Week 26	22	23	24	25	26	27	28
Week 27	29	30					

Establish Stroke Model
Establish photothrombotic stroke model with IACUC approval

Induce Stroke
Induce photothrombotic stroke in study cohort

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0			1 <div>Maintain Rig Log Q4 2026 Maintain equipment maintenance log for Q4 2026</div>	2	3	4	5
Week 28	6	7	8 <div>Acute Phase Imaging Acquire acute-phase imaging data (0-1 week post-stroke)</div>	9	10	11	12
Week 29	13	14 <div>Adapt ML Pipeline Adapt ML pipeline for stroke imaging data analysis</div>	15	16	17	18 <div>Dual-Color Platform Operational - Achieve operational status of the Receive Enhanced AAV</div>	19
Week 30	20 <div>Transition Phase Imaging Acquire transition-phase imaging data (2-4 weeks post-stroke)</div>	21	22	23	24	25	26
Week 31	27	28	29	30	31		

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0						1 <div>AR Vascular Platform Develop AR platform and draft methods paper</div>	2
Week 32	3	4	5	6	7	8	9
Week 33	10	11 <div>Develop SLAVV-T Codebase Develop improved codebase for temporal analysis</div>	12	13	14	15	16
Week 34	17	18 <div>Optimize ML</div>	19 <div>Early Chronic Phase Imaging</div>	20	21	22	23
Week 35	24	25	26	27	28	29	30
Week 36	31						

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0		1 Complete Progress Review	2	3	4	5	6
		Maintain Fall 2026 Registration					
Week 37	7	8	9	10	11	12	13
Week 38	14	15	16 Extended Chronic Imaging Acquire extended chronic-phase imaging data if required	17	18	19	20
Week 39	21 Complete Longitudinal Imaging Complete comprehensive longitudinal stroke imaging study	22	23	24	25	26 Integrate LSCI Data Integrate Laser Speckle Contrast Imaging flow data with two-photon data	27
Week 40	28	29	30				

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0				1 Maintain Rig Log Q1 2027 Maintain equipment maintenance	2 log for Q1 2027	3	4
Week 41	5	6	7	8	9	10	11
Week 42	12	13	14	15	16	17	18
Week 43	19	20	21	22	23	24	25
Week 44	26 Analyze Stroke Data Analyze neurovascular coupling and microvascular changes post-stroke	27	28	29	30	31	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0							1
Week 45	2	3	4	5	6	7	8
Week 46	9	10	11	12	13	14	15
			Draft SLAVV-T Manuscript Draft SLAVV-T manuscript				
Week 47	16	17	18	19	20	21	22
Week 48	23	24	25	26	27	28	29
Week 49	30						

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0		1	2	3	4	5	6
Week 50	7	8	9	10	11	12	13
			Data Acquisition Complete - Complete all planned imaging studies Complete comprehensive data acquisition for all research aims	Prepare Conference Presentation			
				Write Research Paper			
Week 51	14	15	16	17	18	19	20
						Submit Research Paper	
						Write Introduction Chapter	
Week 52	21	22	23	24	25	26	27
		Submit SLAV Submit MS on	Manuscript Submissions Complete - All planned manuscripts submitted Complete all planned manuscript submissions	Submit Manuscript Submit MS on			
Week 53	28	29	30	31			

- Manuscript Submissions
- Research Paper
- Final Submission & Graduation
- AR Platform Development
- Data Management & Analysis
- Aim 3 - Stroke Study & Analysis
- Dissertation Writing
- SLAVV-T Development

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0					1	2	3
					Submit Graduation Application		
					Draft Dissertation Introduction & Methods		
Week 1	4	5	6	7	8	9	10
Week 2	11	12	13	14	15	16	17
Week 3	18	19	20	21	22	23	24
Week 4	25	26	27	28	29	30	31

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 5	1	2	3 Write Methods & Results Chapters	4	5	6	7 Write Discussion & Conclusions
Week 6	8	9	10	11	12	13	14
Week 7	15	16 Draft Aim 1 Chapter Draft Aim 1 Chapter utilizing the completed manuscript	17	18	19	20	21
Week 8	22	23	24	25	26	27	28

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 9	1	2	3	4	5	6	7
Week 10	8	9	10	11	12	13	14
Week 11	15	16	17	18	19	20	21
Week 12	22	23	24	25	26	27	28
Week 13	29	30	31				

Draft Aim 2/3 Chapter
Draft Aim 2/3 Chapter utilizing the completed manuscript

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0				<div>1</div> <div>Maintain Rig Log Q3 2027 Maintain equipment maintenance log for Q3 2027</div>	<div>2</div>	<div>3</div>	<div>4</div>
Week 14	<div>5</div>	<div>6</div>	<div>7</div>	<div>8</div>	<div>9</div>	<div>10</div>	<div>11</div>
Week 15	<div>12</div>	<div>13</div>	<div>14</div>	<div>15</div>	<div>16</div> <div>Draft Dissertation Conclusions Draft Dissertation Conclusions</div>	<div>17</div>	<div>18</div>
Week 16	<div>19</div>	<div>20</div>	<div>21</div>	<div>22</div>	<div>23</div>	<div>24</div>	<div>25</div>
Week 17	<div>26</div>	<div>27</div>	<div>28</div>	<div>29</div>	<div>30</div>		

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0						1	2
Week 18	3	4	5	6	7	8	9
Week 19	10	11	12	13	14	15	16 <div>Complete Dissertation Draft</div> <div>Complete dissertation draft for committee review</div>
Week 20	17 <div>Final Committee Meeting</div> <div>Final Committee Meeting</div>	18	19	20	21	22	23
Week 21	24	25	26	27	28	29	30 <div>Final Revisions</div> <div>Incorporate Final Revisions</div>
Week 22	31						

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0		1 <div>Submit Final Oral Exam Request</div>	2	3	4	5	6
		<div>Maintain Summer 2027 Registration</div>					
Week 23	7	8	9	10	11	12	13
Week 24	14	15	16	17	18	19 <div>Complete Dissertation Draftfalse</div>	20
Week 25	21	22	23	24	25	26	27
Week 26	28	29	30 <div>Dissertation Complete - Complete dissertation draft for committee review Complete comprehensive dissertation draft</div>				

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0				1 Maintain Rig Maintain equipment	2 Log Q4 2027 maintenance	3 log for Q4 2027	4
Week 27	5	6	7	8	9	10	11
Week 28	12	13	14	15	16 Final Submission Submit final dissertation	17 PhD Defense - defend PhD dissertation	18 Successfully defend PhD dissertation
Week 29	19	20	21	22 Incorporate Committee Feedback Address committee feedback and	23 obtain final approval	24	25
Week 30	26	27	28	29	30	31	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0							1
Week 31	2	3	4	5	6	7	8
Week 32	9	10	11	12	13	14	15
Week 33	16	17	18	19	20	21	22
Week 34	23	24	25	26	27	28	29
Week 35	30	31					

Submit Final Dissertation
Submit final dissertation and complete graduation requirements

Graduation - Complete PhD program and graduate
Complete PhD program and graduate

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0			1	2	3	4	5
Week 36	6	7	8	9	10	11	12
Week 37	13	14	15	16	17	18	19
Week 38	20	21	22	23	24	25	26
Week 39	27	28	29	30			

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0					1	2	3
Week 40	4	5	6	7	8	9	10
Week 41	11	12	13	14	15	16	17
Week 42	18	19	20	21	22	23	24
Week 43	25	26	27	28	29	30	31

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 44	1	2	3	4	5	6	7
Week 45	8	9	10	11	12	13	14
Week 46	15	16	17	18	19	20	21
Week 47	22	23	24	25	26	27	28
Week 48	29	30					

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 0			1	2	3	4	5
Week 49	6	7	8	9	10	11	12
Week 50	13	14	15	16	17	18	19
Week 51	20	21	22	23	24	25	26
Week 52	27	28	29	30	31		