

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2025 | Q3 | August | July | September

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|-----------|----------|---|----------|---|
| Week 31 | | | | | 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 |
| | | | | | Align seed Achieve 30 mW core (pre-pump for stable las | | Submit proposal outline MILESTONE: Send initial proposal draft to advisor for review before Monday deadline. |

Proposal Laser Imaging Admin Dissertation Research Publication

| | | |
|------|----|-----------|
| 2025 | Q3 | September |
|------|----|-----------|

| | |
|--------|---------|
| August | October |
|--------|---------|

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|-----------------|---------|--|----------|--|----------|--------|
| Week 36 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Identify commit | | Restore amplified output to 130 mW (previous exam date. Reserve room for exam. | | Align amplifier benchmark performance level). | | |
| | | | | | | | |
| Week 37 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | Check pulse compression | | Verify 200 fs pulse duration and record specifications in equipment log. | | |
| | | | | | +1 more | | |
| Week 38 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | | | | | | | |
| | | | | | | | |
| Week 39 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | | | | | | | |
| | | | | | | | |
| Week 40 | 29 | 30 | | | | | |
| | | | | | | | |
| | | | | | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2025 | Q4 | October | September | November

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|--|----------|-------------------------|----------|--------|
| Week 40 | | | 1 Design and order AAV-mScarlet (vascular) and jRGECO1b (neuronal) vectors. Finalize constructs and submit production orders to core facility. | 2 | 3 Design AAV vectors | 4 | 5 |
| Week 41 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Week 42 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Week 43 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Week 44 | 27 | 28 | 29 | 30 | 31 | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2025 | Q4 | November | October | December

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

Complete proposal draft
Write full proposal document (~13 pages) including all aims and research strategy for committee review.

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2025 | Q4 | December

November

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|--|-----------|----------|--------|----------|--------|
| Week 49 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Week 50 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Week 51 | 15 | 16 Send proposal to committee MILESTONE: Email proposal to committee 2 weeks before exam date | 17 | 18 | 19 | 20 | 21 |
| Week 52 | 22 | 23 (satisfies pre-exam requirement). | 24 | 25 | 26 | 27 | 28 |
| Week 1 | 29 | 30 | 31 | | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2026 | Q1 | January

February

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|--------|--------|--|---|--|--------|----------|--|
| Week 1 | | | | 1 | 2 | 3 | 4 Prepare presentation Create slide deck and practice oral exam presentation. |
| Week 2 | 5 | 6 | 7 | 8 | 9 | 10 | 11 Plan for two practice runs with lab members. |
| Week 3 | 12 | 13 | 14 | 15 AAV vectors ready MILESTONE: AAV vectors received from core facility. Ready for in vivo animal studies. | 16 | 17 | 18 |
| Week 4 | 19 | 20 PhD Proposal Exam Qualifying Exam: Defend dissertation proposal in oral exam with committee members. | 21 Incorporate committee revisions into proposal and submit signed approval form for final approval. | 22 Address committee feedback | 23 | 24 | 25 |
| Week 5 | 26 | 27 | 28 | 29 | 30 | 31 | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2026 | Q1 | February

January | March

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|--------|---|----------------------------------|-----------|----------|--------|----------|---|
| Week 5 | | | | | | | 1 Cranial window surgery #1 Install cranial window and inject AAV in first pilot mouse. Begin |
| Week 6 | 2 Monitor and medicate Mouse #1 after surgery. No imaging during recovery period to allow healing. | 3 Post-op recovery #1 | 4 | 5 | 6 | 7 | 8 Cranial window surgery #2 Install cranial window and inject AAV in second pilot mouse |
| Week 7 | 9 Monitor and medicate Mouse #2 after surgery. Maintain analgesia schedule during recovery. | 10 Post-op recovery #2 | 11 | 12 | 13 | 14 | 15 Cranial window surgery #3 Install cranial window and inject AAV in third pilot mouse (further |
| Week 8 | 16 Monitor and medicate Mouse #3 after surgery. Complete recovery period before imaging. | 17 Post-op recovery #3 | 18 | 19 | 20 | 21 | 22 Pilot imaging session #1 Acquire in vivo images for Mouse #1 comparing AAV fluorescence vs |
| Week 9 | 23 | 24 | 25 | 26 | 27 | 28 | traditional dye injection methods. |

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2026 | Q1 | March

February | April

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|-----------|----------|----------------|----------|---|
| Week 9 | | | | | | | 1 Pilot imaging... Ord |
| Week 10 | 2 | 3 | 4 | 5 | 6 | 7 | 8 Pilot imaging session #3 Acquire in vivo images for Mouse #3. Complete final pilot dataset for |
| Week 11 | 9 | 10 | 11 | 12 | 13 Pilot... | 14 | 15 Aim 1 Develop U-Net... |
| Week 12 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Week 13 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| Week 14 | 30 | 31 | | | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2026 | Q2 | April

March | May

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|---|---|------------------------------|----------|--------|
| Week 14 | | | 1 Write manuscript on AAV-based vascular imaging methodology and pilot results from Aim 1 studies. | 2 | 3 Draft methodology paper | 4 | 5 |
| Week 15 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Week 16 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Week 17 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Week 18 | 27 | 28 | 29 | 30 Compare labeling methods Systematically compare imaging depth; SNR; and contrast across different labeling methods (AAV vs dye) in vivo. | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2026 | Q2 | May | April | June

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|-----------|----------|--------|----------|--|
| Week 18 | | | | | 1 | 2 | 3 |
| Week 19 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Week 20 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Week 21 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Week 22 | 25 | 26 | 27 | 28 | 29 | 30 | 31 Establish stroke protocol Complete training and IACUC approval for stroke induction method (photothrombosis). Ensure all regulatory approvals are in place. |

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2026 | Q2 | June

May | July

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--|---------|-----------|----------------------|--------|--|--------|
| Week 23 | 1 Submit methodology paper Submit Aim 1 imaging methodology paper to journal | 2 | 3 | 4 | 5 | 6 Induce stroke Perform stroke induction surgeries on experimental animal cohort to initiate Aim 3 longitudinal imaging study. | 7 |
| Week 24 | 8 for peer review and publication consideration. | 9 | 10 | 11 | 12 | 13 | 14 |
| Week 25 | 15 | 16 | 17 | 18 Acute-phase... | 19 | 20 | 21 |
| Week 26 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| Week 27 | 29 | 30 | | | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2026 | Q3 | July

June | August

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|------------------|---|-------------------------|----------|--------|
| Week 27 | | | 1 Enhanced... | 2 | 3 Transition-phas... | 4 | 5 |
| Week 28 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Week 29 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Week 30 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Week 31 | 27 | 28 | 29 | 30 Stabilization-phase imaging Conduct imaging sessions in early chronic phase (5-8 weeks post-stroke) to observe vascular remodeling processes. | 31 | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2026 | Q3 | August

July | September

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|---|---|-----------|----------|--------|----------|--------|
| Week 31 | | | | | | 1 | 2 |
| Week 32 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Week 33 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Week 34 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Week 35 | 24 | 25 Extended chronic imaging Conduct imaging at ~12 weeks post-stroke (if needed) to capture long-term vascular remodeling and recovery patterns. | 26 | 27 | 28 | 29 | 30 |
| Week 36 | 31 Stroke data complete MILESTONE: Completion of all planned longitudinal imaging sessions for stroke study (Aim 3). | | | | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2026 | Q3 | September

August | October

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|-----------|-------------------|--------|----------|--------|
| Week 36 | | 1 | 2 | 3 | 4 | 5 | 6 |
| | | | | Integrate flow... | | | |
| Week 37 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Week 38 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Week 39 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| Week 40 | 28 | 29 | 30 | | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2026 | Q4 | October | September | November

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|-----------|--|-------------------------------------|----------|--------|
| Week 40 | | | | 1 Quantify microvascular network changes and neurovascular coupling dynamics from post-stroke imaging data. | 2 Analyze neurovascular coupling | 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 | 27 | 28 | 29 | 30 | 31 | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2026 | Q4 | November

October | December

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|-----------|----------|--------|----------|-----------------------|
| Week 44 | | | | | | | 1 |
| Week 45 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Week 46 | 9 | 10 | 11 | 12 | 13 | 14 | 15 Draft second... |
| Week 47 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Week 48 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| Week 49 | 30 | | | | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2026 | Q4 | December

November

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|--------------------------------------|-----------|---------------------------------|--------|--|-------------------|
| Week 49 | | 1 Complete dissertation write-up; | 2 | 3 PhD Dissertation & Defense | 4 | 5 final defense; and all graduation requirements by | 6 Summer 2027. |
| Week 50 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Week 51 | 14 | 15 Draft Introduction | 16 | 17 | 18 | 19 | 20 |
| Week 52 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| Week 53 | 28 | 29 | 30 | 31 | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2027 | Q1 | January

February

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|-----------|----------|---|----------|--------|
| Week 53 | | | | | 1 <div>Draft Aim 1 chapter</div> <div>Write chapter detailing Aim 1 (AAV imaging) methods; experiments; and results for dissertation.</div> | 2 | 3 |
| Week 1 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Week 2 | 11 | 12 | 13 | 14 | 15 <div>Draft Aim 2 chapter</div> <div>Write chapter detailing Aim 2 (dual-color imaging platform) methods and results for dissertation.</div> | 16 | 17 |
| Week 3 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Week 4 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2027 | Q1 | February | January | March

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|--------|--|---------|-----------|----------|--------|----------|--------|
| Week 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Draft Aim 3 chapter Write chapter detailing Aim 3 (stroke model, imaging study) methods; data; and findings for dissertation. | | | | | | |
| Week 6 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | | | | | |
| Week 7 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| | | | | | | | |
| Week 8 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | | | | | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2027 | Q1 | March

February | April

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|---|---------|-----------|----------|--------|----------|--------|
| Week 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Draft Conclusions Write final dissertation chapter summarizing findings; implications; and future research directions. | | | | | | |
| 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 | | | | |
| | | | | | | | |

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2027 | Q2 | April

March | May

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

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2027 | Q2 | May

April | June

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|-----------|----------|--------|---|--------|
| Week 17 | | | | | | 1 Dissertation draft complete MILESTONE: Complete PhD dissertation draft compiled and ready for committee review. | 2 |
| Week 18 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Week 19 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Week 20 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Week 21 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| Week 22 | 31 | | | | | | |

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2027 | Q2 | June

May | July

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

Task Categories: Proposal Laser Imaging Admin Dissertation Research Publication

2027 | Q3 | July

June | August

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|-----------|--|---|----------|--------|
| Week 26 | | | | 1 | 2 | 3 | 4 |
| Week 27 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Week 28 | 12 | 13 | 14 | 15 PhD Defense Defend PhD dissertation in oral exam with committee (must occur 2 weeks before final submission deadline). | 16 Revise dissertation Incorporate committee feedback and revisions after defense. Obtain final approval signatures. | 17 | 18 |
| Week 29 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| Week 30 | 26 | 27 | 28 | 29 | 30 | 31 | |

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2027 | Q3 | August July | September

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|---------|--------|---------|-----------|----------|--------|----------|---|
| Week 30 | | | | | | | 1 Submit dissertation Upload approved dissertation PDF and submit all required forms to Graduate School by deadline. |
| 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 | | | | | |