

Luna Wilcox

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SUMMARY

Scientific applications specialist with eight years of experience supporting **preclinical imaging** research, customer demonstrations, laboratory training, and translational biomedical studies. Advanced expertise in **ultra high frequency ultrasound**, **photoacoustic imaging**, **small animal anatomy and physiology**, oncology, cardiology, neurobiology, genetics, molecular biology, and image analysis supports clear scientific guidance from study design through interpretation. Leads pre sales evaluations, installation planning, post installation application support, customer issue resolution, conferences, workshops, and virtual presentations. Develops procedure manuals, training protocols, research protocols, experiments, and scientific documents that help laboratories produce consistent data. Collaborates with sales, product management, marketing, and research teams, turning user feedback into practical product improvements. Mentors applications scientists and brings organized, thoughtful support to concurrent customer and research priorities.

EXPERIENCE

Senior Scientific Applications Specialist, Preclinical Imaging

January 2024 - Present

Aperture Bioscience Imaging

Raleigh, NC

Leads customer facing ultrasound and photoacoustic applications across demonstrations, training, installation support, scientific presentations, **product feedback**, and peer mentoring. Connects research questions with practical imaging workflows while supporting commercial and laboratory stakeholders.

- Led **oncology** demonstrations using ultrasound workflows, helping researchers connect imaging methods with study endpoints.
- Trained laboratory users on positioning, acquisition, consistency, and quantitative analysis during customer sessions.
- Planned installation workflows with research teams, reducing application issues during post **installation support**.
- Presented imaging applications at **conferences**, workshops, seminars, and virtual scientific sessions for prospective customers.
- Synthesized **user feedback**, **feature requests**, images, and data for product and marketing decisions.
- Mentored two applications scientists through demonstrations, troubleshooting, scientific communication, and customer follow up.

Scientific Applications Scientist, Preclinical Imaging

June 2021 - December 2023

Meridian Translational Imaging

Durham, NC

Supported preclinical ultrasound and photoacoustic studies across tumor biology, vascular function, cardiac phenotyping, and neuroscience. Built reusable training resources, evaluated application features, and partnered with commercial teams on customer study design and technical support.

- Supported tumor biology studies with ultrasound and photoacoustic workflows, improving consistency across research datasets.
- Built training manuals covering animal preparation, orientation, acquisition, data quality, and **imaging software**.
- Developed small animal protocols linking anatomy, physiology, endpoints, and analytical methods for laboratory teams.
- Conducted technical demonstrations alongside sales teams, translating research needs into practical imaging workflows.
- Resolved acquisition, image quality, analysis, and study design issues through documented customer follow up.
- Evaluated prototype features with representative datasets, then summarized scientific and usability findings for stakeholders.

Preclinical Imaging Scientist, Translational Research

August 2019 - May 2021

Carolina Biomedical Research Center

Chapel Hill, NC

Operated preclinical ultrasound and photoacoustic workflows for tumor vascularity, cardiac function, and neurovascular research. Translated investigator goals into controlled acquisition plans, traceable analysis, scientific communication, and hands on laboratory training.

- Operated ultrasound workflows for tumor vascularity, cardiac function, and neurovascular studies in animal models.
- Translated study endpoints into acquisition parameters, anatomical views, longitudinal schedules, and quality checks.
- Processed imaging datasets with specialized software and **analytical tools**, preserving traceable research documentation.
- Integrated **genetics** and **molecular biology** context with imaging endpoints during experimental procedure development.
- Prepared figures, scientific summaries, and presentations for multidisciplinary investigators and research discussions.
- Trained graduate researchers on setup, animal positioning, acquisition consistency, and image interpretation.

Graduate Researcher, Preclinical Imaging

August 2018 - July 2019

Wake Biomedical Engineering Laboratory

Winston Salem, NC

Conducted doctoral research using high resolution ultrasound and photoacoustic methods in small animal disease models. Designed controlled experiments, analyzed longitudinal datasets, authored scientific materials, and trained junior researchers under faculty supervision.

- Conducted doctoral imaging research with ultrasound and photoacoustic methods in small animal disease models.
- Designed controlled **experiments** linking anatomy and physiology with quantitative imaging endpoints for study interpretation.
- Analyzed longitudinal datasets and resolved acquisition inconsistencies before downstream research analysis.
- Integrated **oncology**, cardiovascular biology, genetics, and **molecular biology** literature into study planning.

- Authored scientific methods, protocols, figures, and **presentation** materials for research dissemination.
- Trained junior graduate students on equipment preparation, standardized acquisition, data **organization**, and presentations.

PROJECTS

Small Animal Imaging Protocol Library 📅 2024

Created a practical collection of imaging protocols connecting animal preparation, anatomical orientation, acquisition consistency, analysis steps, and research endpoints. Shared clear resources with laboratory users and applications colleagues.

Translational Photoacoustic Study Workflows 📅 2023

Built repeatable photoacoustic workflows for tumor biology, vascular function, and neuroscience studies. Connected investigator questions with image quality checks, analytical methods, and scientifically useful reporting.

LEADERSHIP & AWARDS

- Applications Science Peer Mentor, 2024 to Present. Guides developing scientists through demonstrations, customer communication, troubleshooting, and scientific follow up.
- Doctoral Research Leadership Recognition, 2019. Recognized for translating complex imaging experiments into clear protocols, figures, and presentations.
- Scientific Training Contribution Award, 2023. Celebrated for practical manuals that helped new users gain confidence without making the equipment feel mysterious.

EDUCATION

Ph.D. in Biomedical Engineering

Wake Forest University GPA: 4.0

2019
Winston Salem, NC

***Coursework:** Preclinical imaging, biomedical engineering, small animal physiology, molecular biology*

B.S. in Biomedical Engineering

Virginia Commonwealth University GPA: 4.0

2014
Richmond, VA

***Coursework:** Biomedical systems, anatomy, physiology, imaging science, experimental design*

CERTIFICATIONS

- Valid Driver's License 📅 2026
- Valid U.S. Passport 📅 2026

TECHNICAL SKILLS

- **Imaging Modalities:** Ultra high frequency ultrasound, photoacoustic imaging, high resolution imaging
- **Imaging Software:** Image analysis software, quantitative analysis, image quality assessment
- **Microsoft Office:** Microsoft Word, Microsoft PowerPoint, Microsoft Excel
- **Preclinical Research:** Small animal models, animal preparation, longitudinal studies
- **Biomedical Science:** Anatomy, physiology, oncology
- **Disease Research:** Cardiology, neurobiology, tumor biology
- **Molecular Research:** Genetics, molecular biology, vascular function
- **Scientific Documentation:** Procedure manuals, training protocols, scientific documents
- **Customer Applications:** Pre sales demonstrations, installation support, application troubleshooting
- **Research Development:** Research protocols, experimental design, feature evaluation
- **Commercial Collaboration:** Sales support, product management, marketing support
- **Scientific Presentation:** Customer seminars, conferences, workshops
- **Data Communication:** Images, experimental data, scientific summaries
- **Professional Development:** Peer mentoring, customer training, technical presentations

SKILLS

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|-------------------------|---------------------------|----------------------|------------------------|
| • Preclinical imaging | • Small animal physiology | • Genetics | • Application support |
| • Ultrasound | • Oncology | • Molecular biology | • Protocol development |
| • Photoacoustic imaging | • Cardiology | • Scientific writing | • Product feedback |
| • Small animal anatomy | • Neurobiology | • Customer training | |

PROFESSIONAL AFFILIATIONS

- Applications Science Peer Mentor, supporting colleagues through customer demonstrations and technical problem solving.
- Biomedical Engineering Research Community, contributing preclinical imaging methods and translational study knowledge.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST